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Big Game Hunter Questionnaire Survey, 1989/90

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**Manitoba
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ABSTRACT

Harvest statistics, as determined by the hunter questionnaire method, are presented for 1989/90 Manitoba big game seasons. Resident bear, caribou, deer, elk, and moose hunters were surveyed. For 1989/90, 1,613 bear, 291 caribou, 45,710 deer, 2,663 elk, and 6,158 moose licenses were issued for a total of 56,435 resident big game licenses. Sampling varied with respect to intensity, frame, and number of mailings. The response rate, by season, varied between 54% and 100%. Uses and limitations of the harvest statistics are discussed. It is suggested that harvest statistics should be treated as indices because they are generally inaccurate as collected in Manitoba.

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TABLE OF CONTENTS

	<u>Page</u>
ABSTRACT	i
LIST OF TABLES	iii
INTRODUCTION	1
METHODS	3
RESULTS	7
DISCUSSION	67
LITERATURE CITED	70
APPENDIX I	
Seasons where initial and second mailings were sent on dates other than specified by method	72
APPENDIX II	
Mailing dates for license stubs received from Wildlife and Fisheries Licensing	75

LIST OF TABLES

<u>Table</u>		<u>Page</u>
1.	Big game species and seasons for which harvest was estimated by questionnaire, 1989/90	1
2.	Information pertinent to big game harvest estimation, 1989/90	4
3.	Estimated and reported information for general bear season (RU), 1989/90	11
4.	Estimated and reported information for general caribou season (GC), 1989/90	13
5.	Estimated and reported information for firearm caribou season (C1), 1989/90	14
6.	Estimated and reported information for firearm caribou season (C2), 1989/90	15
7.	Estimated and reported information for firearm caribou season (C3), 1989/90	16
8.	Estimated and reported information for firearm caribou season (C4), 1989/90	17
9.	Estimated and reported information for firearm caribou season (C5), 1989/90	18
10.	Estimated and reported information for general deer season (GD), 1989/90	19
11.	Estimated and reported information for bowhunting deer season (AD), 1989/90	21
12.	Estimated and reported information for bowhunting second deer season (SD), 1989/90	23
13.	Estimated and reported information for muzzle-loading firearm deer season (MD), 1989/90	24
14.	Estimated and reported information for landowner deer season (LD), 1989/90	26
15.	Estimated and reported information for bowhunting elk season (AE1), 1989/90	27
16.	Estimated and reported information for bowhunting elk season (AE2), 1989/90	28

17.	Estimated and reported information for bowhunting elk season (AE3), 1989/90	29
18a.	Estimated and reported information for bowhunting elk season (AE4, elk), 1989/90	30
18b.	Estimated and reported information for bowhunting elk season (AE4, moose), 1989/90	31
19a.	Estimated and reported information for bowhunting elk season (AE5, elk), 1989/90	32
19b.	Estimated and reported information for bowhunting elk season (AE5, moose), 1989/90	33
20.	Estimated and reported information for general landowner elk season (GLE), 1989/90	34
21a.	Estimated and reported information for landowner elk season (LE1, elk), 1989/90	35
21b.	Estimated and reported information for landowner elk season (LE1, moose), 1989/90	36
22.	Estimated and reported information for landowner elk season (LE2), 1989/90	37
23.	Estimated and reported information for firearm elk season (E1), 1989/90	38
24.	Estimated and reported information for firearm elk season (E2), 1989/90	39
25.	Estimated and reported information for firearm elk season (E3), 1989/90	40
26.	Estimated and reported information for firearm elk season (E4), 1989/90	41
27.	Estimated and reported information for firearm elk season (E5), 1989/90	42
28.	Estimated and reported information for firearm elk season (E6), 1989/90	43
29.	Estimated and reported information for firearm elk season (E7), 1989/90	44
30.	Estimated and reported information for firearm elk season (E8), 1989/90	45

31.	Estimated and reported information for firearm elk season (E9), 1989/90	46
32a.	Estimated and reported information for firearm elk season (E10, elk), 1989/90	47
32b.	Estimated and reported information for firearm elk season (E10, moose), 1989/90	48
33.	Estimated and reported information for firearm elk season (E11), 1989/90	49
34a.	Estimated and reported information for firearm elk season (E12, elk), 1989/90	50
34b.	Estimated and reported information for firearm elk season (E12, moose), 1989/90	51
35.	Estimated and reported information for firearm elk season (E13), 1989/90	52
36.	Estimated and reported information for bowhunting moose season (AM), 1989/90	53
37.	Estimated and reported information for general moose season (GM), 1989/90	54
38.	Estimated and reported information for firearm moose season (M1), 1989/90	56
39.	Estimated and reported information for firearm moose season (M2), 1989/90	57
40.	Estimated and reported information for firearm moose season (M3), 1989/90	58
41.	Estimated and reported information for firearm moose season (M4), 1989/90	59
42.	Estimated and reported information for firearm moose season (M5), 1989/90	60
43.	Estimated and reported information for firearm moose season (M6), 1989/90	61
44.	Estimated and reported information for firearm moose season (M7), 1989/90	62
45.	Estimated and reported information for firearm moose season (M8), 1989/90	63

46.	Estimated and reported information for firearm moose season (M9), 1989/90	64
47.	Estimated and reported information for firearm moose season (M10), 1989/90	65
48.	Harvest confidence limits (95%) calculated with and without correction for continuity	66

INTRODUCTION

Each year, harvest statistics for various species of big game are estimated by the questionnaire method. The species, type of season, and other pertinent information are provided in Table 1 for those 1989/90 (fall/spring) seasons for which harvest was estimated. General seasons, as defined, are those seasons for which the number of licenses is not limited. These seasons were restricted to firearms, the exception being the general black bear season, in which it was also permissible to hunt with a bow during certain periods within certain Game Hunting Areas (GHAs). Additionally, the number of licenses was not restricted for the deer and moose bowhunting seasons (AD, SD, AM), the muzzle-loading firearm deer season (MD), the landowner deer season (LD), and the general landowner elk season (GLE). For the various landowner seasons (deer, elk), the opportunity to hunt was restricted to the landowner and/or an immediate family member on the lands owned by the individual. For the other seasons indicated in Table 1, the number of tags was limited and allocated by draw. Only one tag was issued to every two hunters for many of these draw seasons.

Table 1. Big game species and seasons for which harvest was estimated by questionnaire, 1989/90.

Species	Season code	Season type	Game Hunting Area(s)	Season dates
Bear	RU	General	Various	Fall, various dependent on GHA
Caribou	GC	General	3, 3A, 9, 9A 17	Various dependent on GHA
	C1	Firearm	1	1 Sept - 16 Dec
	C2	Firearm	2	20 Nov - 10 Feb, 90
	C3	Firearm	2A	18 Sept - 14 Oct
	C4	Firearm	4	18 Sept - 14 Oct
	C5	Firearm	7, 7A	18 Sept - 14 Oct

Table 1. Big game species and seasons for which harvest was estimated by questionnaire, 1989/90 (continued).

Species	Season code	Season type	Game Hunting Area(s)	Season dates
Deer	GD	General	Various	Various dependent on GHA
	AD	Bowhunting	Various	Various dependent on GHA
	SD	Second deer (bowhunting)	33	28 Aug - 25 Nov
	MD	Muzzle-loading firearm	Various	Various dependent on GHA
	LD	Landowner	33	2 Oct - 7 Oct
Elk	AE1	Bowhunting	13, 13A	28 Aug - 16 Sept
	AE2	Bowhunting	18, 18A	28 Aug - 16 Sept
	AE3	Bowhunting	21, 25, 25A	Various dependent on GHA
	AE4	Bowhunting	23, 23A	28 Aug - 4 Nov
	AE5	Bowhunting	30	28 Aug - 30 Sept
	GLE	Landowner	13A, 18A	18 Sept - 14 Oct, 27 Nov - 13 Jan, 90
	LE1	Landowner	23, 23A	4 Sept - 28 Oct
	LE2	Landowner	30	2 Oct - 28 Oct
	E1	Firearm	13, 13A	25 Sept - 14 Oct
	E2	Firearm	13A	4 Dec - 9 Dec
	E3	Firearm	18, 18A	25 Sept - 14 Oct
	E4	Firearm	18A	4 Dec - 9 Dec
	E5	Firearm	18A	11 Dec - 16 Dec
	E6	Firearm	18A	1 Jan - 6 Jan, 90
	E7	Firearm	18A	8 Jan - 13 Jan, 90
	E8	Firearm	21, 25	18 Sept - 7 Oct
	E9	Firearm	30	30 Oct - 11 Nov
	E10	Firearm	23	2 Dec - 23 Dec
	E11	Firearm	23	1 Jan - 20 Jan, 90
	E12	Firearm	23A	2 Dec - 23 Dec
	E13	Firearm	23A	1 Jan - 20 Jan, 90
Moose	AM	Bowhunting	Various	Various dependent on GHA
	GM	General	Various	Various dependent on GHA
	M1	Firearm	6	18 Sept - 14 Oct, 27 Nov - 9 Dec

Table 1. Big game species and seasons for which harvest was estimated by questionnaire, 1989/90 (continued).

Species	Season code	Season type	Game Hunting Area(s)	Season dates
	M2	Firearm	13, 13A	2 Oct - 28 Oct
	M3	Firearm	13, 13A	27 Nov - 2 Dec
	M4	Firearm	18, 18A	2 Oct - 28 Oct
	M5	Firearm	18, 18A	27 Nov - 2 Dec
	M6	Firearm	21A	27 Nov - 9 Dec
	M7	Firearm	30	20 Nov - 25 Nov
	M8	Firearm	34	27 Nov - 2 Dec
	M9	Firearm	35, 35A	27 Nov - 2 Dec
	M10	Firearm	36	27 Nov - 9 Dec

METHODS

For draw seasons, names and addresses of successful applicants were received from Wildlife and Fisheries Licensing. For other seasons, stubs with names and addresses of licensees were available as they were received from vendors and processed by Wildlife and Fisheries Licensing.

Sampling was systematic and sampling intensity varied between 25% and 100% of all tags (Table 2) with greater sampling intensity for seasons with few tags and/or species of relative concern. For those seasons where 2 licensees were allotted 1 tag (Firearm Elk, Firearm Moose), only 1 licensee per pair was sampled. Questionnaires were to be sent out on the day prior to the end of the season; however, this did not always occur (Appendix I) due to poor planning, time constraints, or, for those seasons which ended in December, because response can be adversely influenced when mailings occur during the Christmas period (G. Mason, Prairie Research Associates Inc., pers. commun.). For seasons which did not have a fixed number of tags (eg., General Deer), license stubs were sampled and questionnaires mailed out as stubs were received from Wildlife and Fisheries Licensing. For those seasons for which a second

Table 2. Information pertinent to big game harvest estimation, 1989/90.

Species	Season code	Number tags ^a	Sampling intensity (%)	Sampling frame	Number mailings	Response rate ^b (%)
Bear	RU	1,613	25	1,590	1	56
Caribou	GC	69	100	69	2	74
	C1	79	100	79	2	80
	C2	98	100	98	2	72
	C3	10	100	10	2	100
	C4	10	100	10	2	70
	C5	25	100	25	2	84
Deer	GD	38,574	25	38,070	1	55
	AD	3,646	25	3,586	1	62
	SD	97	100	97	1	76
	MD	3,361	25	3,353	1	68
	LD	32	100	32	2	84
Elk	AE1	50	100	50	2	80
	AE2	226	100	226	2	77
	AE3	75	100	75	2	77
	AE4	200	100	200	2	74
	AE5	75	100	75	2	83
	GLE	460	100	460	2	68
	LE1	176	100	176	2	65
	LE2	11	100	11	2	82
	E1	10	100	10	2	90
	E2	20	100	20	2	85
	E3	50	100	50	2	80
	E4	20	100	20	2	70
	E5	20	100	20	2	65
	E6	20	100	20	2	80
	E7	20	100	20	2	70
	E8	25	100	25	2	88
	E9	10	100	10	2	90
	E10	175	100	175	2	71
	E11	175	100	175	2	70
	E12	75	100	75	2	61
	E13	75	100	75	2	71
Moose	AM	141	50	141	1	74
	GM	4,953	50	4,874	1	54

Table 2. Information pertinent to big game harvest estimation, 1989/90 (continued).

Species	Season code	Number tags ^a	Sampling intensity (%)	Sampling frame	Number mailings	Response rate ^b (%)
	M1	30	100	30	2	67
	M2	50	100	50	2	70
	M3	10	100	10	2	80
	M4	100	100	100	2	75
	M5	15	100	15	2	60
	M6	50	100	50	2	76
	M7	10	100	10	2	70
	M8	36	100	36	2	64
	M9	131	100	131	2	73
	M10	100	100	100	2	74

^aThere was 1 tag per 2 licensees for Special Firearm Elk (E1-E13) and Special Firearm Moose (M1-M10). Only one licensee was sent a questionnaire for these 2/1 seasons.

^bSample size = Sampling frame X Sampling intensity (decimal portion deleted).

mailing was conducted, a second questionnaire was sent to individuals who had not responded within 28 days after the first mailing. In several cases, the second mailing was not conducted at the 28 day time interval (Appendix I).

As vendor returns are often late, license stubs continue to be received well beyond the end of each season (Appendix II). For the purpose of these estimates, stubs received after 30 May were not sampled (i.e., not included in the sampling frame) and questionnaires received after 31 July were not included in the data used to generate estimates. The sampling frame is the number of license stubs or individuals who were available to be sampled (an incomplete sampling frame likely results in bias as documented for general moose estimates by Soprovich 1989). Similarly, license sales figures used in the estimates were those supplied by Wildlife and Fisheries Licensing at 31 July (figures available at the end of July would slightly underestimate total license sales figures for some seasons).

If received on time, all questionnaires were used and ambiguous information handled as in Soprovich (1989). The general moose questionnaire presented a special problem in that hunters could indicate hunting in the periods of September/October and/or November/December. Seasons generally fell into either of these two periods; however, some overlap did occur (eg., GHA 17 had a season which ran from 18 September to 4 November). In that case where only an early season occurred (i.e., GHA 17), days in November were included in the September/October period. In those cases where both early and late seasons occurred (i.e., GHAs 3, 15, 15A, 17A), all November days were included in the November/December period although some of these days could have occurred during the early season. Additionally, for GHAs 1, 2, and 3A, days were split into the two periods, as required under the questionnaire design, despite the season being continuous from 1 September to 16 December.

Confidence limits on estimates were calculated as in previous years (Hummelt 1986) with the exception that a correction for continuity ($1/2n$) was added (Cochran 1977). This added computation leads to wider confidence limits at a small sample size.

For seasons in which licensees could hunt in more than one GHA, harvest estimates are not provided by GHA. Such estimates can be calculated in the following manner:

$$\text{Harvest (GHA A)} = \frac{\text{Number of kills (GHA A)}}{\text{Number of responses}} \times \text{Number licenses}$$

An assumption necessary to making this estimate is that hunters from the GHA in question return questionnaires at the same rate as all hunters for the season. This assumption is violated for the general moose season (see page 70, Soprovich 1989) and likely violated to some extent for some, if not all, seasons. The significance of this important violation was discussed by Soprovich (pages 91 and 92, 1989).

RESULTS

The following tables detail reported information and indices/estimates for each of the seasons surveyed. The top portion of each table provides reported information by GHA. AM, AF, IM, IF, and UNK represent adult male, adult female, immature male (born in 1989), immature female, and unknown age/sex. Early season represents a fall season while late season refers to a winter season. Seasons which started in the fall and extended through the winter were entered as early seasons (eg., GLE). The lower portion of each table details indices/estimates with confidence limits, where applicable.

In examining these tables, the following general points should be recognized.

- (a) The age/sex of each kill was entered as it appeared on the returned questionnaire. As a consequence, a number of illegal and/or unknown kills occur in the tables. These may represent actual illegal kills in some cases; however, it is believed that most cases occurred when the wrong box was checked on the questionnaire and/or the hunter was unclear of the definition of an immature animal.
- (b) For some of the early seasons, a delay in receiving the postcard questionnaires required that the questionnaire format was changed to one 21.5 cm X 28.0 cm sheet of paper (to try, as much as possible, to stay to the methodology of mailing on the day prior to the end of the season). For M1, only the first mailing occurred with this questionnaire format. The questions on this format did not separate the season into two periods despite licensees being able to hunt in discrete fall and winter periods. As a consequence, data for M1 are lumped into one period.
- (c) For those seasons where licensees could hunt in multiple GHAs, the total number of hunters will not necessarily equal the sum of the number of licensees

hunting in each GHA (reported information). This results because each hunter has the option of hunting in more than one GHA.

- (d) For those seasons with two licensees per tag, several indices are incorrect. The kills/hunter index is actually kills/pair of hunters (or kills/tag) while the days/kill index should be expanded by a factor of two.
- (e) For those seasons where a kill was not recorded (Tables 19b, 34b, and 44), days/kill is incorrect. The output value is zero while the true value is undefined (division by zero) and should be large rather than small for comparative purposes (i.e., at the opposite end of the continuum from zero).
- (f) For those seasons with two licensees per tag, it became apparent that response bias exists. In one case, an individual replied that he had not tagged an animal but his partner had (the individual should have indicated that he had tagged the animal because his tag was used). In a second case, the questionnaire from the first mailing indicated the tag had been used while the questionnaire from the second mailing indicated that the tag had not been used. In this case, a telephone interview with the individual who had filled out the questionnaires revealed that it was the partner, not the individual sampled, who filled out both questionnaires, and that the partner had filled them out with only one kill per two questionnaires because they had killed only one animal between them (again, this should have been filled out as tag used irrespective of who filled out the questionnaire). The consequence of this form of response bias is that harvest is likely slightly (?) underestimated for some, or many, of these seasons.
- (g) Whenever hunters indicate having hunted in closed GHAs which are found adjacent to several open GHAs, hunter activity and harvest are underestimated for the adjacent open GHAs. This problem is particularly apparent, but

not limited to, seasons with GHAs near Winnipeg (eg., GHAs 26, 34, 35, and 35A for general bear where GHAs 34A, 34B, and 38 are sometimes indicated). These data are treated as unknown because the hunter could have hunted in one of several open GHAs.

- (h) The reported data may not include all GHAs in which licensees could hunt (eg., GHAs 2, 3, 6, 6A, 8, 16, 19, 24, 25B, and 34B for general bear, Table 3). These GHAs were not included because respondents did not report hunting in them.

Additionally, the following points specific to several tables are important to recognize.

- (a) **Bowhunting deer and bowhunting second deer hunters** (Tables 11, 12) could hunt in GHA 33 under the authority of both licenses. It was apparent from comments on questionnaires that it was difficult for hunters to differentiate when the hunting, and sometimes kill, was conducted as a result of holding the bowhunting deer or bowhunting second deer license. The impact on the statistics is unknown; however, it is likely that figures for the bowhunting second deer season are overstated (for bowhunting deer, the effect is likely similar but minimal because of the relatively large number of licenses).
- (b) One respondent from the **general caribou season** (Table 4) indicated hunting 32 days in each of GHAs 3, 3A, 9, and 9A. This is an atypical response which, for this season with few licenses, substantially altered the average number of days hunted and statistics calculated from the number of days hunted.
- (c) One unknown kill from the **general moose season** (Table 37) was a female of unknown age, likely from GHA 3A.
- (d) It was apparent that some hunters who killed a deer during the **muzzle-loading firearm season** indicated having tagged a deer when they received a questionnaire for the **general deer season** (Table 10). For example, an

individual indicated having hunted during both the muzzle-loading firearm and general season, checked the box to indicate his tag had been used, and then indicated that the kill had occurred during the muzzle-loading firearm season. In another case, a hunter checked the box to indicate that he had hunted (on the general deer questionnaire) but also indicated in writing that he had hunted during the muzzle-loading firearm season only. These examples indicate the existence of response bias because it is likely that other individuals in similar circumstances did not clarify, in writing, under which license they had actually hunted or tagged deer. The consequence of this bias is that figures for the general deer season are overstated, perhaps substantially for those GHAs with substantial muzzle-loading firearm hunting.

Confidence limits, with and without the correction for continuity, were calculated (Table 48). To compare confidence limits for 1989/90 seasons to those from previous years, the value without the correction for continuity must be used.

Species : Bear
Season Type : Firearm
Date Choice : RU

Licences Sold: 1,613
Tags Issued: 1,613
Questionnaires Mailed: 397

Responses: 223
Response Rate: 56.172
Sampling Frame (2): 98.452

	OVERALL SUMMARY									EARLY SEASON									LATE SEASON								
	# OF	# OF	HARVEST BREAKDOWN						# OF	# OF	HARVEST BREAKDOWN						# OF	# OF	HARVEST BREAKDOWN								
GHA:	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			
1	1	3	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
10	4	13	1	0	0	0	0	1	4	13	1	0	0	0	0	1	0	0	0	0	0	0	0				
11	1	2	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0				
12	4	16	0	0	0	0	0	0	4	16	0	0	0	0	0	0	0	0	0	0	0	0	0				
13	3	9	0	0	0	0	0	0	3	9	0	0	0	0	0	0	0	0	0	0	0	0	0				
13A	3	10	0	0	0	0	0	0	3	10	0	0	0	0	0	0	0	0	0	0	0	0	0				
14	5	23	0	0	0	0	0	0	5	23	0	0	0	0	0	0	0	0	0	0	0	0	0				
15	3	11	1	0	0	0	0	1	3	11	1	0	0	0	0	1	0	0	0	0	0	0	0				
15A	1	7	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0				
17	4	20	1	0	0	0	0	1	4	20	1	0	0	0	0	1	0	0	0	0	0	0	0				
17A	4	16	0	0	0	0	0	0	4	16	0	0	0	0	0	0	0	0	0	0	0	0	0				
18	4	13	0	0	0	0	0	0	4	13	0	0	0	0	0	0	0	0	0	0	0	0	0				
18A	16	66	2	0	0	0	0	2	16	66	2	0	0	0	0	2	0	0	0	0	0	0	0				
19A	3	17	0	0	0	0	0	0	3	17	0	0	0	0	0	0	0	0	0	0	0	0	0				
19B	2	3	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
20	2	3	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
21A	4	32	0	0	0	0	0	0	4	32	0	0	0	0	0	0	0	0	0	0	0	0	0				
22	1	3	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
23	18	74	2	1	0	0	0	3	18	74	2	1	0	0	0	3	0	0	0	0	0	0	0				
23A	10	31	3	0	0	0	0	3	10	31	3	0	0	0	0	3	0	0	0	0	0	0	0				
25	10	63	1	1	0	0	0	2	10	63	1	1	0	0	0	2	0	0	0	0	0	0	0				
25A	4	19	1	0	0	0	0	1	4	19	1	0	0	0	0	1	0	0	0	0	0	0	0				
26	14	62	1	1	0	0	0	2	14	62	1	1	0	0	0	2	0	0	0	0	0	0	0				
2A	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0				
34	8	39	3	0	0	0	0	3	8	39	3	0	0	0	0	3	0	0	0	0	0	0	0				
34A	2	6	1	0	0	0	0	1	2	6	1	0	0	0	0	1	0	0	0	0	0	0	0				
35	38	177	6	4	0	0	0	10	38	177	6	4	0	0	0	10	0	0	0	0	0	0	0				
35A	13	70	2	0	0	0	0	2	13	70	2	0	0	0	0	2	0	0	0	0	0	0	0				
36	9	25	3	0	0	0	0	3	9	25	3	0	0	0	0	3	0	0	0	0	0	0	0				
3A	1	7	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	1	3	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
5	3	25	0	0	0	0	0	0	3	25	0	0	0	0	0	0	0	0	0	0	0	0	0				
7	3	7	0	0	0	0	0	0	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0				
7A	1	3	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
9	9	73	2	0	0	0	0	2	9	73	2	0	0	0	0	2	0	0	0	0	0	0	0				
9A	2	4	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0				
UNK	4	17	2	0	0	0	0	2	4	17	2	0	0	0	0	2	0	0	0	0	0	0	0				

Table 3. Estimated and reported information for general bear season (RU), 1989/90 (continued).

Report Date: 6-Sep-91

Species : Bear
 Season Type : Firearm
 Date Choice : RU

Licences Sold: 1,613
 Tags Issued: 1,613
 Questionnaires Mailed: 397

Responses: 223
 Response Rate: 56.17%
 Sampling Frame (%): 98.452

OVERALL SUMMARY									EARLY SEASON									LATE SEASON														
# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN												
GNA	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL
	176	973	32	7	0	0	0	39		176	973	32	7	0	0	39		0	0	0	0	0	0	0		0	0	0	0	0	0	

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	5.53	5.53	0.00
	Kills/Hunter:	.22	.22	0.00
	Days/Kill:	24.95	24.95	0.00
Number of Hunters:		1,273 +/- 84	1,273 +/- 84	0 +/- 4
Adult Male:		231 +/- 73	231 +/- 73	0 +/- 4
Adult Female:		51 +/- 38	51 +/- 38	0 +/- 4
Immature Male:		0 +/- 4	0 +/- 4	0 +/- 4
Immature Female:		0 +/- 4	0 +/- 4	0 +/- 4
Unknown:		0 +/- 4	0 +/- 4	0 +/- 4
Total:		282 +/- 78	282 +/- 78	0 +/- 4

Table 4. Estimated and reported information for general caribou season (GC), 1989/90.

Report Date: 28-Aug-90

Species : Caribou
Season Type : Firearm
Date Choice : GC

Licences Sold: 69
Tags Issued: 69
Questionnaires Mailed: 69

Responses: 51
Response Rate: 73.91%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN					TOTAL			# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN					TOTAL			# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN					TOTAL		
SHA		AM	AF	IN	IF	UMK						AM	AF	IN	IF	UMK						AM	AF	IN	IF	UMK			
17	4	12	4	0	0	0	0	0	4	4	12	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
13	26	226	8	0	0	0	0	0	8	26	226	8	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
3A	8	58	2	0	0	0	0	0	2	8	58	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
9	5	51	1	0	0	0	0	0	1	5	51	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
9A	5	48	0	0	0	0	0	0	0	5	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	395	15	0	0	0	0	0	0	15	43	395	15	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	9.19	9.19	0.00
	Kills/Hunter:	.35	.35	0.00
	Days/Kill:	26.33	26.33	0.00
	Number of Hunters:	58 +/- 4	58 +/- 4	0 +/- 1
	Adult Males:	20 +/- 5	20 +/- 5	0 +/- 1
	Adult Females:	0 +/- 1	0 +/- 1	0 +/- 1
	Immature Males:	0 +/- 1	0 +/- 1	0 +/- 1
	Immature Females:	0 +/- 1	0 +/- 1	0 +/- 1
	Unknown:	0 +/- 1	0 +/- 1	0 +/- 1
Total:		20 +/- 5	20 +/- 5	0 +/- 1

Table 5. Estimated and reported information for firearm caribou season (C1), 1989/90.

Report Date: 28-Aug-90

Species : Caribou
Season Type : Firearm
Date Choice : C1

Licences Sold: 79
Tags Issued: 79
Questionnaires Mailed: 79

Responses: 63
Response Rate: 79.752
Sampling Frame (2): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		
40	157	21	1	0	0	2	24			40	157	21	1	0	0	2	24			0	0	0	0	0	0	0	0		
40	157	21	1	0	0	2	24			40	157	21	1	0	0	2	24			0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	3.93	3.93	0.00
	Kills/Hunter:	.60	.60	0.00
	Days/Kill:	6.54	6.54	0.00
Number of Hunters:		50 +/- 5	50 +/- 5	0 +/- 1
Adult Male:		26 +/- 5	26 +/- 5	0 +/- 1
Adult Female:		1 +/- 2	1 +/- 2	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		3 +/- 2	3 +/- 2	0 +/- 1
Total:		30 +/- 5	30 +/- 5	0 +/- 1

Table 6. Estimated and reported information for firearm caribou season (C2), 1989/90.

Report Date: 28-Aug-90

Species : Caribou
Season Type : Firearm
Date Choice : C2

Licences Sold: 98
Tags Issued: 98
Questionnaires Mailed: 98

Responses: 71
Response Rate: 72.452
Sampling Frame (%): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON												
		# OF		HARVEST BREAKDOWN									# OF		HARVEST BREAKDOWN									# OF		HARVEST BREAKDOWN						
GHA	HUNT.	# OF	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	# OF	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	# OF	DAYS	AM	AF	IN	IF	UNK	TOTAL					
2		45	235	16	9	0	0	1	26	0		0	0	0	0	0	0	0	45		235	16	9	0	0	1	26					
		45	235	16	9	0	0	1	26	0		0	0	0	0	0	0	0	45		235	16	9	0	0	1	26					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	5.22	0.00	5.22
	Kills/Hunter:	.58	0.00	.58
	Days/Kill:	9.04	0.00	9.04
Number of Hunters:		62 ± 6	0 ± 1	62 ± 6
Adult Males:		22 ± 6	0 ± 1	22 ± 6
Adult Females:		12 ± 5	0 ± 1	12 ± 5
Immature Males:		0 ± 1	0 ± 1	0 ± 1
Immature Females:		0 ± 1	0 ± 1	0 ± 1
Unknown:		1 ± 2	0 ± 1	1 ± 2
Total:		36 ± 6	0 ± 1	36 ± 6

Table 7. Estimated and reported information for firearm caribou season (C3), 1989/90.

Report Date: 28-Aug-90

Species : Caribou
Season Type : Firearm
Date Choice : C3

Licences Sold: 10
Tags Issued: 10
Questionnaires Mailed: 10

Responses: 10
Response Rates: 100.002
Sampling Frame (2): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON													
#GHA	# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN						# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN						# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN														
			AM	AF	IN	IF	UNK	TOTAL			AM	AF	IN	IF	UNK	TOTAL			AM	AF	IN	IF	UNK	TOTAL									
2A	9	30	1	0	0	0	0	1	9	30	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	30	1	0	0	0	0	1	9	30	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	3.33	3.33	0.00
	Kills/Hunter:	.11	.11	0.00
	Days/Kill:	30.00	30.00	0.00
Number of Hunters:		9 +/- 0	9 +/- 0	0 +/- 0
Adult Male:		1 +/- 0	1 +/- 0	0 +/- 0
Adult Female:		0 +/- 0	0 +/- 0	0 +/- 0
Immature Male:		0 +/- 0	0 +/- 0	0 +/- 0
Immature Female:		0 +/- 0	0 +/- 0	0 +/- 0
Unknown:		0 +/- 0	0 +/- 0	0 +/- 0
Total:		1 +/- 0	1 +/- 0	0 +/- 0

Table 8. Estimated and reported information for firearm caribou season (C4), 1989/90.

Report Date: 28-Aug-90

Species : Caribou
Season Type : Firearm
Date Choice : C4

Licences Sold: 10
Tags Issued: 10
Questionnaires Mailed: 10

Responses: 7
Response Rate: 70.00%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		
7	64	0	2	0	0	0	2			7	64	0	2	0	0	0	2			0	0	0	0	0	0	0	0		
7	64	0	2	0	0	0	2			7	64	0	2	0	0	0	2			0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunters:	9.14	9.14	0.00
	Kills/Hunters:	.29	.29	0.00
	Days/Kill:	32.00	32.00	0.00
Number of Hunters:		10 ± 1	10 ± 1	0 ± 1
Adult Male:		0 ± 1	0 ± 1	0 ± 1
Adult Female:		3 ± 3	3 ± 3	0 ± 1
Immature Male:		0 ± 1	0 ± 1	0 ± 1
Immature Female:		0 ± 1	0 ± 1	0 ± 1
Unknown:		0 ± 1	0 ± 1	0 ± 1
Total:		3 ± 3	3 ± 3	0 ± 1

Table 9. Estimated and reported information for firearm caribou season (C5), 1989/90.

Report Date: 28-Aug-90

Species : Caribou
Season Type : Firearm
Date Choice : C5

Licences Sold: 25
Tags Issued: 25
Questionnaires Mailed: 25

Responses: 21
Response Rate: 84.002
Sampling Frame (%): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AM	AF	IM	IF	UNK	TOTAL			HUNT.	DAYS	AM	AF	IM	IF	UNK	TOTAL			HUNT.	DAYS	AM	AF	IM	IF	UNK	TOTAL		
7	20	125	1	1	0	0	0	2		20	125	1	1	0	0	0	2			0	0	0	0	0	0	0	0		
7A	11	50	0	0	0	0	0	0		11	50	0	0	0	0	0	0			0	0	0	0	0	0	0	0		
	20	175	1	1	0	0	0	2		20	175	1	1	0	0	0	2			0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunters:	8.75	8.75	0.00
	Kills/Hunters:	.10	.10	0.00
	Days/Kill:	87.50	87.50	0.00
Number of Hunters:		24 +- 2	24 +- 2	0 +- 1
Adult Males:		1 +- 2	1 +- 2	0 +- 1
Adult Females:		1 +- 2	1 +- 2	0 +- 1
Immature Males:		0 +- 1	0 +- 1	0 +- 1
Immature Females:		0 +- 1	0 +- 1	0 +- 1
Unknown:		0 +- 1	0 +- 1	0 +- 1
Total:		2 +- 2	2 +- 2	0 +- 1

Table 10. Estimated and reported information for general deer season (GD), 1989/90.

Report Date: 6-Sep-90

Species : Deer
Season Type : Firearm
Date Choice : 6D

Licences Sold: 38,574
Tags Issued: 38,574
Questionnaires Mailed: 9,517

1 Responses: 3,206
 Response Rate: 54.702
 Sampling Frame (2): 98.692

GHA	OVERALL SUMMARY								EARLY SEASON								LATE SEASON												
	HUNT.	N OF DAYS	HARVEST BREAKDOWN						TOTAL	HUNT.	N OF DAYS	HARVEST BREAKDOWN						TOTAL	HUNT.	N OF DAYS	HARVEST BREAKDOWN						TOTAL		
			AM	AF	IN	IF	UNK	AM				AF	IN	IF	UNK	AM	AF				IN	IF	UNK						
11	3	6	0	0	0	0	0	0	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	16	51	6	2	0	0	0	8	16	51	6	2	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0
13	40	152	13	2	4	1	0	20	40	152	13	2	4	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
13A	31	141	9	4	1	0	0	14	31	141	9	4	1	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0
14	51	188	16	6	2	4	0	28	51	188	16	6	2	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0
15	4	7	0	0	0	0	0	0	4	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15A	2	9	1	0	0	0	0	1	2	9	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
16	12	31	3	1	0	1	0	5	12	31	3	1	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
17A	6	23	3	1	0	0	0	4	6	23	3	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
18	122	428	39	22	4	2	0	67	122	428	39	22	4	0	0	67	0	0	0	0	0	0	0	0	0	0	0	0	0
18A	139	519	55	25	5	3	2	90	139	519	55	25	5	0	2	90	0	0	0	0	0	0	0	0	0	0	0	0	0
19	72	320	22	11	3	2	0	38	72	320	22	11	3	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0
19A	74	339	29	10	4	1	0	44	74	339	29	10	4	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0
19B	97	468	37	14	2	2	1	56	97	468	37	14	2	0	1	56	0	0	0	0	0	0	0	0	0	0	0	0	0
20	43	169	10	6	2	4	0	22	43	169	10	6	2	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0
21	89	346	38	9	4	0	0	51	89	346	38	9	4	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0
21A	18	90	6	2	1	1	0	10	18	90	6	2	1	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0
22	530	2130	274	72	22	8	9	385	530	2130	274	72	22	0	9	385	0	0	0	0	0	0	0	0	0	0	0	0	0
23	206	998	91	30	10	4	4	139	206	998	91	30	10	0	4	139	0	0	0	0	0	0	0	0	0	0	0	0	0
23A	101	413	40	10	7	4	2	63	101	413	40	10	7	0	2	63	0	0	0	0	0	0	0	0	0	0	0	0	0
24	131	652	50	16	3	0	2	71	131	652	50	16	3	0	2	71	0	0	0	0	0	0	0	0	0	0	0	0	0
25	233	1046	59	24	9	6	2	100	233	1046	59	24	9	0	2	100	0	0	0	0	0	0	0	0	0	0	0	0	0
25A	317	1365	102	45	11	4	0	162	317	1365	102	45	11	0	0	162	0	0	0	0	0	0	0	0	0	0	0	0	0
25B	319	1226	106	35	5	7	0	153	319	1226	106	35	5	0	0	153	0	0	0	0	0	0	0	0	0	0	0	0	0
26	150	595	41	19	4	1	0	65	150	595	41	19	4	0	0	65	0	0	0	0	0	0	0	0	0	0	0	0	0
27	220	840	100	29	6	1	1	137	220	840	100	29	6	0	1	137	0	0	0	0	0	0	0	0	0	0	0	0	0
28	366	1448	144	53	13	10	2	222	366	1448	144	53	13	0	2	222	0	0	0	0	0	0	0	0	0	0	0	0	0
29	88	360	39	11	3	1	0	54	88	360	39	11	3	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0
29A	18	61	8	1	1	0	0	10	18	61	8	1	1	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0
30	461	2000	182	53	12	8	4	259	461	2000	182	53	12	0	4	259	0	0	0	0	0	0	0	0	0	0	0	0	0
31	374	1617	150	46	10	5	1	212	374	1617	150	46	10	0	1	212	0	0	0	0	0	0	0	0	0	0	0	0	0
31A	174	654	78	17	5	2	1	103	174	654	78	17	5	0	1	103	0	0	0	0	0	0	0	0	0	0	0	0	0
32	101	448	37	13	1	0	1	52	101	448	37	13	1	0	1	52	0	0	0	0	0	0	0	0	0	0	0	0	0
34	158	543	34	14	4	1	2	55	158	543	34	14	4	0	2	55	0	0	0	0	0	0	0	0	0	0	0	0	0
35	637	2590	159	75	13	8	4	259	637	2590	159	75	13	0	4	259	0	0	0	0	0	0	0	0	0	0	0	0	0
35A	380	1472	112	41	10	4	2	169	380	1472	112	41	10	0	2	169	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 10. Estimated and reported information for general deer season (GD), 1989/90 (continued).

Report Date: 6-Sep-90

Species : Deer
Season Type : Firearm
Date Choice : GD

Licences Sold: 38,574
Tags Issued: 38,574
Questionnaires Mailed: 9,517

Responses: 5,206
Response Rate: 54.70%
Sampling Frame (2): 98.69%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF		# OF		HARVEST BREAKDOWN						# OF		# OF		HARVEST BREAKDOWN						# OF		# OF		HARVEST BREAKDOWN					
GHA	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL					
5115	25171	2196	770	196	101	47	3310		5115	25171	2196	770	196	101	47	3310	0	0	0	0	0	0	0						

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	4.92	4.92	0.00
	Kills/Hunter:	.65	.65	0.00
	Days/Kill:	7.60	7.60	0.00
Number of Hunters:		37,900 +- 131	37,900 +- 131	0 +- 4
Adult Male:		16,271 +- 485	16,271 +- 485	0 +- 4
Adult Female:		5,705 +- 350	5,705 +- 350	0 +- 4
Immature Male:		1,452 +- 189	1,452 +- 189	0 +- 4
Immature Female:		748 +- 138	748 +- 138	0 +- 4
Unknown:		348 +- 96	348 +- 96	0 +- 4
Total:		24,526 +- 473	24,526 +- 473	0 +- 4

Table 11. Estimated and reported information for bowhunting deer season (AD), 1989/90.

Report Date: 6-Sep-90

Species : Deer
Season Type : Archery
Date Choice : AD

Licences Sold: 3,646
Tags Issued: 3,646
Questionnaires Mailed: 896

Responses: 559
 Response Rate: 62.39%
 Sampling Frame (2): 90.30%

OVERALL SUMMARY										EARLY SEASON								LATE SEASON							
# OF GWA:	# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN				# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN				# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN										
			AM	AF	IN	IF	UNK	TOTAL			AM	AF	IN	IF	UNK	TOTAL			AM	AF	IN	IF	UNK	TOTAL	
12	1	5	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	2	18	0	0	0	0	0	0	2	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13A	2	11	0	0	0	0	0	0	2	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	8	27	2	0	0	0	0	2	8	27	2	0	0	0	0	2	0	0	0	0	0	0	0	0	
18A	8	54	3	0	0	0	0	3	8	54	3	0	0	0	0	3	0	0	0	0	0	0	0	0	
19	2	11	0	0	0	1	0	1	2	11	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
19A	2	5	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19B	2	31	0	0	0	0	0	0	2	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	1	3	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	4	24	0	0	1	0	0	1	4	24	0	0	1	0	0	1	0	0	0	0	0	0	0	0	
21A	1	4	0	1	0	0	0	1	1	4	0	1	0	0	0	1	0	0	0	0	0	0	0	0	
22	24	394	5	4	1	0	0	10	24	394	5	4	1	0	0	10	0	0	0	0	0	0	0	0	
23	13	195	1	0	0	0	0	1	13	195	1	0	0	0	0	1	0	0	0	0	0	0	0	0	
23A	8	103	0	0	0	0	0	0	8	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	11	120	2	0	0	1	1	4	11	120	2	0	0	0	1	4	0	0	0	0	0	0	0	0	
25	18	137	3	0	0	0	1	4	18	137	3	0	0	0	1	4	0	0	0	0	0	0	0	0	
25A	31	316	6	2	0	0	0	8	31	316	6	2	0	0	0	8	0	0	0	0	0	0	0	0	
25B	42	427	6	2	2	0	0	10	42	427	6	2	2	0	0	10	0	0	0	0	0	0	0	0	
26	14	71	0	0	0	0	0	0	14	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	9	71	1	2	0	0	0	3	9	71	1	2	0	0	0	3	0	0	0	0	0	0	0	0	
28	26	251	4	3	0	0	0	7	26	251	4	3	0	0	0	7	0	0	0	0	0	0	0	0	
29	21	198	3	0	2	0	0	5	21	198	3	0	2	0	0	5	0	0	0	0	0	0	0	0	
29A	1	10	0	0	0	0	0	0	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	55	600	8	5	2	1	0	16	55	600	8	5	2	0	0	16	0	0	0	0	0	0	0	0	
31	49	473	5	3	1	0	0	9	49	473	5	3	1	0	0	9	0	0	0	0	0	0	0	0	
31A	14	167	2	0	0	0	0	2	14	167	2	0	0	0	0	2	0	0	0	0	0	0	0	0	
32	12	88	4	1	0	1	0	6	12	88	4	1	0	0	0	6	0	0	0	0	0	0	0	0	
33	109	1494	26	12	4	4	2	48	109	1494	26	12	4	0	2	48	0	0	0	0	0	0	0	0	
34	15	84	0	0	2	0	0	2	15	84	0	0	2	0	0	2	0	0	0	0	0	0	0	0	
34A	30	314	3	1	0	1	0	5	30	314	3	1	0	0	0	5	0	0	0	0	0	0	0	0	
34B	2	4	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35	52	297	5	3	0	1	0	9	52	297	5	3	0	0	0	9	0	0	0	0	0	0	0	0	
35A	52	634	6	7	0	1	0	14	52	634	6	7	0	0	0	14	0	0	0	0	0	0	0	0	
36	12	69	0	0	0	0	1	1	12	69	0	0	0	0	1	1	0	0	0	0	0	0	0	0	
6A	3	18	2	0	0	0	0	2	3	18	2	0	0	0	0	2	0	0	0	0	0	0	0	0	
7	1	9	0	0	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNK	8	86	1	1	0	0	1	3	8	86	1	1	0	0	1	3	0	0	0	0	0	0	0	0	

Table 11. Estimated and reported information for bowhunting deer season (AD), 1989/90 (continued).

Report Date: 6-Sep-90

Species : Deer
Season Type : Archery
Date Choice : AD

Licences Sold: 3,646
Tags Issued: 3,646
Questionnaires Mailed: 896

Responses: 559
Response Rate: 62.39%
Sampling Frame (%): 98.30%

OVERALL SUMMARY									EARLY SEASON									LATE SEASON								
# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN						# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN						# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN								
		AM	AF	IN	IF	UNK	TOTAL			AM	AF	IN	IF	UNK	TOTAL			AM	AF	IN	IF	UNK	TOTAL			
540	6823	98	47	15	11	6	177	540	6823	98	47	15	11	6	177	0	0	0	0	0	0	0				

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	12.64	12.64	0.00
	Kills/Hunter:	.33	.33	0.00
	Days/Kill:	38.55	38.55	0.00
Number of Hunters:		3,522 +- 54	3,522 +- 54	0 +- 3
Adult Male:		639 +- 109	639 +- 109	0 +- 3
Adult Female:		307 +- 81	307 +- 81	0 +- 3
Immature Male:		98 +- 48	98 +- 48	0 +- 3
Immature Female:		72 +- 42	72 +- 42	0 +- 3
Unknown:		39 +- 32	39 +- 32	0 +- 3
Total:		1,154 +- 133	1,154 +- 133	0 +- 3

Table 12. Estimated and reported information for bowhunting second deer season (SD), 1989/90.

Report Date: 28-Aug-90

Species : Deer
Season Type : Archery
Date Choice : SD

Licences Sold: 97
Tags Issued: 97
Questionnaires Mailed: 97

Responses: 74
Response Rate: 76.292
Sampling Frame (2): 100.002

OVERALL SUMMARY									EARLY SEASON									LATE SEASON								
# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN						
HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	
33	65	715	0	18	2	2	1	23	65	715	0	18	2	0	1	23	0	0	0	0	0	0	0	0		
	65	715	0	18	2	2	1	23	65	715	0	18	2	2	1	23	0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	11.00	11.00	0.00
	Kills/Hunter:	.35	.35	0.00
	Days/Kill:	31.09	31.09	0.00
Number of Hunters:		85 +/- 4	85 +/- 4	0 +/- 1
Adult Male:		0 +/- 1	0 +/- 1	0 +/- 1
Adult Female:		24 +/- 5	24 +/- 5	0 +/- 1
Immature Male:		3 +/- 2	3 +/- 2	0 +/- 1
Immature Female:		3 +/- 2	3 +/- 2	0 +/- 1
Unknown:		1 +/- 2	1 +/- 2	0 +/- 1
Total:		30 +/- 6	30 +/- 6	0 +/- 1

Species : Deer
Season Type : Muzzle Loader
Date Choice : NO

Licences Sold: 3,361
Tags Issued: 3,361
Questionnaires Mailed: 838

0 Responses: 571
Response Rate: 68.142
Sampling Frame (2): 99.732

	OVERALL SUMMARY									EARLY SEASON									LATE SEASON								
	# OF	% OF	HARVEST BREAKDOWN							# OF	% OF	HARVEST BREAKDOWN							# OF	% OF	HARVEST BREAKDOWN						
GMA	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			
13A:	2	16	0	1	0	0	0	1	2	16	0	1	0	0	0	1	0	0	0	0	0	0	0	0			
15 :	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
16 :	3	7	0	0	0	0	0	0	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
18 :	5	23	1	0	0	0	0	1	5	23	1	0	0	0	0	1	0	0	0	0	0	0	0	0			
18A:	11	45	3	2	0	0	0	5	11	45	3	2	0	0	0	5	0	0	0	0	0	0	0	0			
19 :	1	2	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
19A:	4	21	0	0	0	0	0	0	4	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
19B:	5	30	1	0	1	0	1	3	5	30	1	0	1	0	1	3	0	0	0	0	0	0	0	0			
22 :	36	127	9	3	2	1	2	17	36	127	9	3	2	0	2	17	0	0	0	0	0	0	0	0			
23 :	7	23	1	0	0	0	0	1	7	23	1	0	0	0	0	1	0	0	0	0	0	0	0	0			
23A:	3	9	0	1	0	0	0	1	3	9	0	1	0	0	0	1	0	0	0	0	0	0	0	0			
24 :	9	25	3	0	0	0	1	4	9	25	3	0	0	0	1	4	0	0	0	0	0	0	0	0			
25 :	23	94	4	5	2	0	0	11	23	94	4	5	2	0	0	11	0	0	0	0	0	0	0	0			
25A:	43	225	10	7	3	1	3	24	43	225	10	7	3	0	3	24	0	0	0	0	0	0	0	0			
25B:	54	251	9	10	0	1	1	21	54	251	9	10	0	0	1	21	0	0	0	0	0	0	0	0			
26 :	15	52	5	0	1	0	0	6	15	52	5	0	1	0	0	6	0	0	0	0	0	0	0	0			
27 :	15	53	5	2	1	0	0	8	15	53	5	2	1	0	0	8	0	0	0	0	0	0	0	0			
28 :	42	161	14	4	4	1	2	25	42	161	14	4	4	0	2	25	0	0	0	0	0	0	0	0			
29 :	10	23	0	1	1	1	0	3	10	23	0	1	1	0	0	3	0	0	0	0	0	0	0	0			
29A:	2	7	1	0	0	0	0	1	2	7	1	0	0	0	0	1	0	0	0	0	0	0	0	0			
30 :	71	366	23	14	5	1	2	45	71	366	23	14	5	0	2	45	0	0	0	0	0	0	0	0			
31 :	72	347	16	10	2	1	2	31	72	347	16	10	2	0	2	31	0	0	0	0	0	0	0	0			
31A:	23	131	8	2	1	0	1	12	23	131	8	2	1	0	1	12	0	0	0	0	0	0	0	0			
32 :	11	47	3	1	1	0	1	6	11	47	3	1	1	0	1	6	0	0	0	0	0	0	0	0			
34 :	28	120	4	2	1	0	1	8	28	120	4	2	1	0	1	8	0	0	0	0	0	0	0	0			
35 :	85	307	10	10	4	2	1	27	85	307	10	10	4	0	1	27	0	0	0	0	0	0	0	0			
35A:	71	246	19	8	1	1	2	31	71	246	19	8	1	0	2	31	0	0	0	0	0	0	0	0			
36 :	36	116	9	8	1	0	1	19	36	116	9	8	1	0	1	19	0	0	0	0	0	0	0	0			
6A:	1	11	0	1	0	0	0	1	1	11	0	1	0	0	0	1	0	0	0	0	0	0	0	0			
UNK:	9	35	1	1	0	1	0	3	9	35	1	1	0	0	0	3	0	0	0	0	0	0	0	0			
	562	2921	159	93	31	11	21	315	562	2921	159	93	31	11	21	315	0	0	0	0	0	0	0	0			

Table 13. Estimated and reported information for muzzle-loading firearm deer season (MD), 1989/90 (continued).

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
		-----	-----	-----
INDICIES:	Days/Hunter:	5.20	5.20	0.00
	Kills/Hunter:	.56	.56	0.00
	Days/Kill:	9.27	9.27	0.00
Number of Hunters:		3,308 +- 34	3,308 +- 34	0 +- 3
Adult Male:		936 +- 116	936 +- 116	0 +- 3
Adult Female:		547 +- 96	547 +- 96	0 +- 3
Immature Male:		182 +- 60	182 +- 60	0 +- 3
Immature Female:		65 +- 37	65 +- 37	0 +- 3
Unknown:		124 +- 50	124 +- 50	0 +- 3
		=====	=====	=====
Total:		1,854 +- 128	1,854 +- 128	0 +- 3

Table 14. Estimated and reported information for landowner deer season (LD), 1989/90.

Report Date: 28-Aug-90

Species : Deer
Season Type : Landowner
Date Choice : LD

Licences Sold: 32
Tags Issued: 32
Questionnaires Mailed: 32

Responses: 27
Response Rate: 84.38%
Sampling Frame (%): 100.00%

OVERALL SUMMARY												EARLY SEASON												LATE SEASON											
<--- HARVEST BREAKDOWN --->												<--- HARVEST BREAKDOWN --->												<--- HARVEST BREAKDOWN --->											
# OF	# OF	AM	AF	IN	IF	UNK	TOTAL	# OF	# OF	AM	AF	IN	IF	UNK	TOTAL	# OF	# OF	AM	AF	IN	IF	UNK	TOTAL	# OF	# OF	AM	AF	IN	IF	UNK	TOTAL				
HUNT.	DAYS							HUNT.	DAYS							HUNT.	DAYS							HUNT.	DAYS										
33	27	70	0	9	1	2	0	12	27	70	0	9	1	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	27	70	0	9	1	2	0	12	27	70	0	9	1	2	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	2.59	2.59	0.00
	Kills/Hunter:	.44	.44	0.00
	Days/Kill:	5.83	5.83	0.00
Number of Hunters:		32 +/- 1	32 +/- 1	0 +/- 1
Adult Males:		0 +/- 1	0 +/- 1	0 +/- 1
Adult Females:		11 +/- 3	11 +/- 3	0 +/- 1
Immature Males:		1 +/- 2	1 +/- 2	0 +/- 1
Immature Females:		2 +/- 2	2 +/- 2	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		14 +/- 3	14 +/- 3	0 +/- 1

Table 15. Estimated and reported information for bowhunting elk season (AE1), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Archery
Date Choice : AE1

Licences Sold: 50
Tags Issued: 50
Questionnaires Mailed: 50

Responses: 40
Response Rate: 80.00%
Sampling Frame (%): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		
13	27	133	0	0	0	0	0	0		27	133	0	0	0	0	0	0			0	0	0	0	0	0	0	0		
13A	24	134	1	2	0	0	0	3		24	134	1	2	0	0	0	3			0	0	0	0	0	0	0	0		
	37	267	1	2	0	0	0	3		37	267	1	2	0	0	0	3			0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	7.22	7.22	0.00
	Kills/Hunter:	.00	.00	0.00
	Days/Kill:	89.00	89.00	0.00
Number of Hunters:		46 ± 2	46 ± 2	0 ± 1
Adult Male:		1 ± 2	1 ± 2	0 ± 1
Adult Female:		3 ± 2	3 ± 2	0 ± 1
Immature Male:		0 ± 1	0 ± 1	0 ± 1
Immature Female:		0 ± 1	0 ± 1	0 ± 1
Unknown:		0 ± 1	0 ± 1	0 ± 1
Total:		4 ± 2	4 ± 2	0 ± 1

Table 16. Estimated and reported information for bowhunting elk season (AE2), 1989/90.

Report Date: 27-Aug-90

Species : Elk
Season Type : Archery
Date Choice : AE2

Licences Sold: 226
Tags Issued: 226
Questionnaires Mailed: 226

Responses: 174
Response Rate: 76.992
Sampling Frame (%): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON															
# OF		# OF		HARVEST BREAKDOWN							# OF		# OF		HARVEST BREAKDOWN							# OF		# OF		HARVEST BREAKDOWN									
GHA	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL
10	130	792	15	4	0	0	1	20		130	792	15	4	0	0	1	20		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	
10A	89	426	5	2	1	0	0	8		89	426	5	2	1	0	0	8		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	
UNK	1	6	0	0	0	0	0	0		1	6	0	0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	
	164	1224	20	6	1	0	1	28		164	1224	20	6	1	0	1	28		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	7.46	7.46	0.00
	Kills/Hunter:	.17	.17	0.00
	Days/Kill:	43.71	43.71	0.00
Number of Hunters:		213 +/- 4	213 +/- 4	0 +/- 1
Adult Male:		26 +/- 6	26 +/- 6	0 +/- 1
Adult Female:		8 +/- 4	8 +/- 4	0 +/- 1
Immature Male:		1 +/- 2	1 +/- 2	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		1 +/- 2	1 +/- 2	0 +/- 1
Total:		36 +/- 7	36 +/- 7	0 +/- 1

Table 17. Estimated and reported information for bowhunting elk season (AE3), 1989/90.

Report Date: 27-Aug-90

Species : Elk
Season Type : Archery
Date Choice : AE3

Licences Sold: 75
Tags Issued: 75
Questionnaires Mailed: 75

Responses: 58
Response Rate: 77.33%
Sampling Frame (%): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL				
21	8	40	0	0	0	0	0	0	8	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
25	24	171	2	0	0	0	0	2	24	171	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0				
25A	23	166	2	0	0	0	0	2	23	166	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0				
43	377	4	0	0	0	0	4		43	377	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0				

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	8.77	8.77	0.00
	Kills/Hunter:	.09	.09	0.00
	Days/Kill:	94.25	94.25	0.00
Number of Hunters:		56 ± 5	56 ± 5	0 ± 1
Adult Male:		5 ± 3	5 ± 3	0 ± 1
Adult Female:		0 ± 1	0 ± 1	0 ± 1
Immature Male:		0 ± 1	0 ± 1	0 ± 1
Immature Female:		0 ± 1	0 ± 1	0 ± 1
Unknown:		0 ± 1	0 ± 1	0 ± 1
Total:		5 ± 3	5 ± 3	0 ± 1

Table 18a. Estimated and reported information for bowhunting elk season (AE4, elk), 1989/90.

Report Date: 27-Aug-90

Species : Elk
Season Type : Archery
Date Choice : AE4

Licences Sold: 200
Tags Issued: 200
Questionnaires Mailed: 200

Responses: 147
Response Rate: 73.502
Sampling Frame (2): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		
23	93	796	3	1	0	0	1	5		93	796	3	1	0	0	1	5			0	0	0	0	0	0	0	0		
23A	47	469	4	1	0	0	2	7		47	469	4	1	0	0	2	7			0	0	0	0	0	0	0	0		
UNK	0	0	1	0	0	0	0	1		0	0	1	0	0	0	0	1			0	0	0	0	0	0	0	0		
	121	1265	8	2	0	0	13			121	1265	8	2	0	0	3	13			0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	10.45	10.45	0.00
	Kills/Hunter:	.11	.11	0.00
	Days/Kill:	97.31	97.31	0.00
Number of Hunters:		165 +/- 7	165 +/- 7	0 +/- 1
Adult Males:		11 +/- 4	11 +/- 4	0 +/- 1
Adult Female:		3 +/- 3	3 +/- 3	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		4 +/- 3	4 +/- 3	0 +/- 1
Total:		18 +/- 5	18 +/- 5	0 +/- 1

Table 18b. Estimated and reported information for bowhunting elk season (AE4, moose), 1989/90.

Report Date: 27-Aug-90

Species : Moose
Season Type : Archery
Date Choice : AE4

Licences Sold: 200
Tags Issued: 200
Questionnaires Mailed: 200

Responses: 147
Response Rate: 73.502
Sampling Frame (%): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		
23	93	796	1	2	0	0	0	3		93	796	1	2	0	0	0	3			0	0	0	0	0	0	0	0		
23A	47	469	1	0	0	0	0	1		47	469	1	0	0	0	0	1			0	0	0	0	0	0	0	0		
UNK	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0		
	121	1265	2	2	0	0	0	4		121	1265	2	2	0	0	0	4			0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	10.45	10.45	0.00
	Kills/Hunter:	.03	.03	0.00
	Days/Kill:	316.25	316.25	0.00
Number of Hunters:		165 +/- 7	165 +/- 7	0 +/- 1
Adult Male:		3 +/- 3	3 +/- 3	0 +/- 1
Adult Female:		3 +/- 3	3 +/- 3	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		5 +/- 3	5 +/- 3	0 +/- 1

Table 19a. Estimated and reported information for bowhunting elk season (AE5, elk), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Archery
Date Choice : AE5

Licences Sold: 75
Tags Issued: 75
Questionnaires Mailed: 75

Responses: 62
Response Rate: 82.67%
Sampling Frame (%): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		
30	60	603	1	0	0	0	0	1		60	603	1	0	0	0	0	1			0	0	0	0	0	0	0	0		
	60	603	1	0	0	0	0	1		60	603	1	0	0	0	0	1			0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunters:	10.05	10.05	0.00
	Kills/Hunters:	.02	.02	0.00
	Days/Kill:	603.00	603.00	0.00
Number of Hunters:		73 +/- 2	73 +/- 2	0 +/- 1
Adult Male:		1 +/- 2	1 +/- 2	0 +/- 1
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		1 +/- 2	1 +/- 2	0 +/- 1

Table 19b. Estimated and reported information for bowhunting elk season (AE5, moose), 1989/90.

Report Date: 28-Aug-90

Species : Moose
Season Type : Archery
Date Choice : AE5

Licences Sold: 75
Tags Issued: 75
Questionnaires Mailed: 75

Responses: 62
Response Rate: 82.67%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON															
		HARVEST BREAKDOWN										HARVEST BREAKDOWN										HARVEST BREAKDOWN													
GHA	# OF HUNT.	# OF DAYS	AM	AF	IN	IF	UNK	TOTAL		# OF HUNT.	# OF DAYS	AM	AF	IN	IF	UNK	TOTAL		# OF HUNT.	# OF DAYS	AM	AF	IN	IF	UNK	TOTAL		# OF HUNT.	# OF DAYS	AM	AF	IN	IF	UNK	TOTAL
30	60	603	0	0	0	0	0	0		60	603	0	0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	
	60	603	0	0	0	0	0	0		60	603	0	0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	10.05	10.05	0.00
	Kills/Hunter:	0.00	0.00	0.00
	Days/Kill:	0.00	0.00	0.00
Number of Hunters:		73 +/- 2	73 +/- 2	0 +/- 1
Adult Male:		0 +/- 1	0 +/- 1	0 +/- 1
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		0 +/- 1	0 +/- 1	0 +/- 1

Table 20. Estimated and reported information for general landowner elk season (GLE), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Landowner
Date Choice : GLE

Licences Sold: 460
Tags Issued: 460
Questionnaires Mailed: 460

Responses: 314
Response Rate: 68.262
Sampling Frame (%): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN									
GHA:	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL					
13A:	60	387	7	17	4	0	1	29	60	387	7	17	4	0	1	29	0	0	0	0	0	0	0	0					
10A:	220	1554	25	96	9	4	8	142	220	1554	25	96	9	0	8	142	0	0	0	0	0	0	0	0					
UNK:	10	44	1	1	1	0	0	3	10	44	1	1	1	0	0	3	0	0	0	0	0	0	0	0					
	287	1985	33	114	14	4	9	174	287	1985	33	114	14	4	9	174	0	0	0	0	0	0	0	0					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	6.92	6.92	0.00
	Kills/Hunter:	.61	.61	0.00
	Days/Kill:	11.41	11.41	0.00
Number of Hunters:		420 +- 9	420 +- 9	0 +- 1
Adult Male:		48 +- 10	48 +- 10	0 +- 1
Adult Female:		167 +- 15	167 +- 15	0 +- 1
Immature Male:		21 +- 7	21 +- 7	0 +- 1
Immature Female:		6 +- 4	6 +- 4	0 +- 1
Unknown:		13 +- 6	13 +- 6	0 +- 1
Total:		255 +- 15	255 +- 15	0 +- 1

Table 21a. Estimated and reported information for landowner elk season (LE1, elk), 1989/90.

Report Date: 27-Aug-90

Species : Elk
Season Type : Landowner
Date Choice : LE1

Licences Sold: 176
Tags Issued: 176
Questionnaires Mailed: 176

Responses: 114
Response Rate: 64.77%
Sampling Frame (%): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		
23	54	572	18	0	0	0	2	20		54	572	18	0	0	0	2	20			0	0	0	0	0	0	0	0		
23A	52	693	18	0	0	0	2	20		52	693	18	0	0	0	2	20			0	0	0	0	0	0	0	0		
UNK	2	2	1	0	0	0	0	1		2	2	1	0	0	0	0	1			0	0	0	0	0	0	0	0		
	100	1267	37	0	0	0	4	41		100	1267	37	0	0	0	4	41			0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	11.73	11.73	0.00
	Kills/Hunter:	.38	.38	0.00
	Days/Kill:	30.90	30.90	0.00
Number of Hunters:		167 +/- 5	167 +/- 5	0 +/- 1
Adult Male:		57 +/- 10	57 +/- 10	0 +/- 1
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		6 +/- 4	6 +/- 4	0 +/- 1
Total:		63 +/- 10	63 +/- 10	0 +/- 1

Table 21b. Estimated and reported information for landowner elk season (LE1, moose), 1989/90.

Report Date: 27-Aug-90

Species : Moose
Season Type : Landowner
Date Choice : LE1

Licences Sold: 176
Tags Issued: 176
Questionnaires Mailed: 176

Responses: 114
Response Rate: 64.77%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
		# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN					
GNA:	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			
23:	54	572	1	0	0	0	0	1		54	572	1	0	0	0	0	1		0	0	0	0	0	0	0	0			
23A:	52	693	3	0	0	0	0	3		52	693	3	0	0	0	0	3		0	0	0	0	0	0	0	0			
UNK:	2	2	0	0	0	0	0	0		2	2	0	0	0	0	0	0		0	0	0	0	0	0	0	0			
		108	1267	4	0	0	0	0	4		108	1267	4	0	0	0	0	4		0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunters:	11.73	11.73	0.00
	Kills/Hunters:	.04	.04	0.00
	Days/Kill:	316.75	316.75	0.00
Number of Hunters:		167 +/- 5	167 +/- 5	0 +/- 1
Adult Male:		6 +/- 4	6 +/- 4	0 +/- 1
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		6 +/- 4	6 +/- 4	0 +/- 1

Table 22. Estimated and reported information for landowner elk season (LE2), 1989/90.

Report Date: 27-Aug-90

Species : Elk
Season Type : Landowner
Date Choice : LE2

Licences Sold: 11
Tags Issued: 11
Questionnaires Mailed: 11

Responses: 9
Response Rate: 81.82%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON															
N OF		N OF		HARVEST		BREAKDOWN				N OF		N OF		HARVEST		BREAKDOWN				N OF		N OF		HARVEST		BREAKDOWN									
GHA	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL
30	8	74	2	0	0	0	1	3		8	74	2	0	0	0	1	3		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
	8	74	2	0	0	0	1	3		8	74	2	0	0	0	1	3		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	9.25	9.25	0.00
	Kills/Hunter:	.38	.38	0.00
	Days/Kill:	24.67	24.67	0.00
Number of Hunters:		10 +/- 2	10 +/- 2	0 +/- 1
Adult Male:		2 +/- 2	2 +/- 2	0 +/- 1
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		1 +/- 2	1 +/- 2	0 +/- 1
Total:		4 +/- 2	4 +/- 2	0 +/- 1

Table 23. Estimated and reported information for firearm elk season (E1), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E1

Licences Sold: 20
Tags Issued: 10
Questionnaires Mailed: 10

Responses: 9
Response Rate: 90.00%
Sampling Frame (%): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		
13	3	15	1	0	0	0	0	1		3	15	1	0	0	0	0	1			0	0	0	0	0	0	0	0		
13A	0	33	2	1	0	0	0	3		0	33	2	1	0	0	0	3			0	0	0	0	0	0	0	0		
	9	48	3	1	0	0	0	4		9	48	3	1	0	0	0	4			0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	5.33	5.33	0.00
	Kills/Hunter:	.44	.44	0.00
	Days/Kill:	12.00	12.00	0.00
Number of Hunters:		20 +/- 1	20 +/- 1	0 +/- 1
Adult Male:		3 +/- 2	3 +/- 2	0 +/- 1
Adult Female:		1 +/- 1	1 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		4 +/- 2	4 +/- 2	0 +/- 1

Species : Elk
Season Type : Firearm
Date Choice : E2

Licences Sold: 40
Tags Issued: 20
Questionnaires Mailed: 20

8 Responses: 17
 Response Rate: 85.00%
 Sampling Frame (%): 100.00%

OVERALL SUMMARY										EARLY SEASON								LATE SEASON							
GHA	# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN						# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN						# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN						
			AN	AF	IN	IF	UNK	TOTAL			AN	AF	IN	IF	UNK	TOTAL			AN	AF	IN	IF	UNK	TOTAL	
13A	17	56	0	0	0	1	2	11	0	0	0	0	0	0	0	0	17	56	0	0	0	1	2	11	
	17	56	0	0	0	1	2	11	0	0	0	0	0	0	0	0	17	56	0	0	0	1	2	11	

	OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:			
Days/Hunter:	3.29	0.00	3.29
Kills/Hunter:	.65	0.00	.65
Days/Kill:	5.09	0.00	5.09
Number of Hunters:	40 +/- 1	0 +/- 1	40 +/- 1
Adult Male:	0 +/- 1	0 +/- 1	0 +/- 1
Adult Female:	9 +/- 2	0 +/- 1	9 +/- 2
Immature Male:	0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:	1 +/- 1	0 +/- 1	1 +/- 1
Unknown:	2 +/- 2	0 +/- 1	2 +/- 2
	=====	=====	=====
Total:	13 +/- 2	0 +/- 1	13 +/- 2

Table 25. Estimated and reported information for firearm elk season (E3), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E3

Licences Sold: 100
Tags Issued: 50
Questionnaires Mailed: 50

Responses: 40
Response Rate: 80.00%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		
18	29	79	7	8	0	0	0	15		29	79	7	8	0	0	0	15			0	0	0	0	0	0	0	0		
18A	29	103	9	3	0	0	0	12		29	103	9	3	0	0	0	12			0	0	0	0	0	0	0	0		
	40	182	16	11	0	0	0	27		40	182	16	11	0	0	0	27			0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	4.55	4.55	0.00
	Kills/Hunter:	.68	.68	0.00
	Days/Kill:	6.74	6.74	0.00
Number of Hunters:		100 +/- 1	100 +/- 1	0 +/- 1
Adult Male:		20 +/- 4	20 +/- 4	0 +/- 1
Adult Female:		14 +/- 4	14 +/- 4	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Totals:		34 +/- 4	34 +/- 4	0 +/- 1

Table 26. Estimated and reported information for firearm elk season (E4), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E4

Licences Sold: 40
Tags Issued: 20
Questionnaires Mailed: 20

Responses: 14
Response Rate: 70.00%
Sampling Frame (%): 100.00%

OVERALL SUMMARY									EARLY SEASON									LATE SEASON								
# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN						
GHA	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		
10A	14	51	0	9	1	0	1	11	0	0	0	0	0	0	0	0	14	51	0	9	1	0	1	11		
	14	51	0	9	1	0	1	11	0	0	0	0	0	0	0	0	14	51	0	9	1	0	1	11		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	3.64	0.00	3.64
	Kills/Hunter:	.79	0.00	.79
	Days/Kill:	4.64	0.00	4.64
Number of Hunters:		40 +/- 1	0 +/- 1	40 +/- 1
Adult Males:		0 +/- 1	0 +/- 1	0 +/- 1
Adult Females:		13 +/- 4	0 +/- 1	13 +/- 4
Immature Males:		1 +/- 2	0 +/- 1	1 +/- 2
Immature Females:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		1 +/- 2	0 +/- 1	1 +/- 2
Total:		16 +/- 3	0 +/- 1	16 +/- 3

Table 27. Estimated and reported information for firearm elk season (E5), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E5

Licences Sold: 40
Tags Issued: 20
Questionnaires Mailed: 20

Responses: 13
Response Rate: 65.00%
Sampling Frame (%): 100.00%

OVERALL SUMMARY									EARLY SEASON									LATE SEASON								
# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN						
HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	
12	37	0	2	2	1	1	6		0	0	0	0	0	1	0	0		12	37	0	2	2	1	1	6	
12	37	0	2	2	1	1	6		0	0	0	0	0	0	0	0		12	37	0	2	2	1	1	6	

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	3.08	0.00	3.08
	Kills/Hunter:	.50	0.00	.50
	Days/Kill:	6.17	0.00	6.17
Number of Hunters:		37 +/- 6	0 +/- 2	37 +/- 6
Adult Male:		0 +/- 1	0 +/- 1	0 +/- 1
Adult Female:		3 +/- 3	0 +/- 1	3 +/- 3
Immature Male:		3 +/- 3	0 +/- 1	3 +/- 3
Immature Female:		2 +/- 3	0 +/- 1	2 +/- 3
Unknown:		2 +/- 3	0 +/- 1	2 +/- 3
Total:		9 +/- 4	0 +/- 1	9 +/- 4

Table 28. Estimated and reported information for firearm elk season (E6), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E6

Licences Sold: 40
Tags Issued: 20
Questionnaires Mailed: 20

Responses: 16
Response Rate: 80.002
Sampling Frame (%): 100.002

OVERALL SUMMARY									EARLY SEASON									LATE SEASON								
# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN						
GHA	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		
10A	16	56	1	11	1	0	0	13	0	0	0	0	0	0	0	0	16	56	1	11	1	0	0	13		
	16	56	1	11	1	0	0	13	0	0	0	0	0	0	0	0	16	56	1	11	1	0	0	13		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	3.50	0.00	3.50
	Kills/Hunter:	.81	0.00	.81
	Days/Kill:	4.31	0.00	4.31
Number of Hunters:		40 +/- 1	0 +/- 1	40 +/- 1
Adult Male:		1 +/- 2	0 +/- 1	1 +/- 2
Adult Female:		14 +/- 3	0 +/- 1	14 +/- 3
Immature Male:		1 +/- 2	0 +/- 1	1 +/- 2
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		16 +/- 2	0 +/- 1	16 +/- 2

Table 29. Estimated and reported information for firearm elk season (E7), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E7

Licences Sold: 40
Tags Issued: 20
Questionnaires Mailed: 20

Responses: 14
Response Rate: 70.00%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
#GHA	# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN							# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN							# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN								
			AM	AF	IN	IF	UNK	TOTAL			AM	AF	IN	IF	UNK	TOTAL			AM	AF	IN	IF	UNK	TOTAL					
10A	12	39	0	8	1	1	0	10	0	0	0	0	0	1	0	0	12	39	0	8	1	1	0	10					
	12	39	0	8	1	1	0	10	0	0	0	0	0	0	0	0	12	39	0	8	1	1	0	10					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	3.25	0.00	3.25
	Kills/Hunter:	.83	0.00	.83
	Days/Kill:	3.90	0.00	3.90
Number of Hunters:		34 +- 8	0 +- 1	34 +- 8
Adult Male:		0 +- 1	0 +- 1	0 +- 1
Adult Female:		11 +- 4	0 +- 1	11 +- 4
Immature Male:		1 +- 2	0 +- 1	1 +- 2
Immature Female:		1 +- 2	0 +- 1	1 +- 2
Unknown:		0 +- 1	0 +- 1	0 +- 1
Total:		14 +- 3	0 +- 1	14 +- 3

Table 30. Estimated and reported information for firearm elk season (E8), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E8

Licences Sold: 50
Tags Issued: 25
Questionnaires Mailed: 25

Responses: 22
Response Rate: 88.00%
Sampling Frame (%): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
GHA	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL					
21	6	35	2	0	0	0	0	2	6	35	2	0	0	0	0	2	0	0	0	0	0	0	0	0					
25	18	80	8	0	0	0	0	8	18	80	8	0	0	0	0	8	0	0	0	0	0	0	0	0					
	21	115	10	0	0	0	0	10	21	115	10	0	0	0	0	10	0	0	0	0	0	0	0	0					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	5.48	5.48	0.00
	Kills/Hunter:	.48	.48	0.00
	Days/Kill:	11.50	11.50	0.00
Number of Hunters:		48 +/- 4	48 +/- 4	0 +/- 1
Adult Males:		11 +/- 2	11 +/- 2	0 +/- 1
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		11 +/- 2	11 +/- 2	0 +/- 1

Table 31. Estimated and reported information for firearm elk season (E9), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E9

Licences Sold: 20
Tags Issued: 10
Questionnaires Mailed: 10

Responses: 9
Response Rate: 90.00%
Sampling Frame (%): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON													
#CHA	# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN						# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN						# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN														
	AM	AF	IN	IF	UNK	TOTAL	AM	AF		IN	IF	UNK	TOTAL	AM	AF	IN		IF	UNK	TOTAL													
30	9	70	2	0	0	0	2	4	9	70	2	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	70	2	0	0	0	2	4	9	70	2	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	7.78	7.78	0.00
	Kills/Hunter:	.44	.44	0.00
	Days/Kill:	17.50	17.50	0.00
	Number of Hunters:	20 ± 1	20 ± 1	0 ± 1
	Adult Male:	2 ± 1	2 ± 1	0 ± 1
	Adult Female:	0 ± 1	0 ± 1	0 ± 1
	Immature Male:	0 ± 1	0 ± 1	0 ± 1
	Immature Female:	0 ± 1	0 ± 1	0 ± 1
	Unknown:	2 ± 1	2 ± 1	0 ± 1
	Total:	4 ± 2	4 ± 2	0 ± 1

Table 32a. Estimated and reported information for firearm elk season (E10, elk), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E10

Licences Sold: 350
Tags Issued: 175
Questionnaires Mailed: 175

Responses: 124
Response Rate: 70.862
Sampling Frame (%): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
GHA:	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			
23	107	632	21	1	0	0	1	23		0	0	0	0	0	0	0	0		107	632	21	1	0	0	1	23			
	107	632	21	1	0	0	1	23		0	0	0	0	0	0	0	0		107	632	21	1	0	0	1	23			

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	5.91	0.00	5.91
	Kills/Hunter:	.21	0.00	.21
	Days/Kill:	27.40	0.00	27.40
Number of Hunters:		302 +- 19	0 +- 1	302 +- 19
Adult Males:		30 +- 7	0 +- 1	30 +- 7
Adult Females:		1 +- 2	0 +- 1	1 +- 2
Immature Male:		0 +- 1	0 +- 1	0 +- 1
Immature Female:		0 +- 1	0 +- 1	0 +- 1
Unknown:		1 +- 2	0 +- 1	1 +- 2
Total:		32 +- 7	0 +- 1	32 +- 7

Table 32b. Estimated and reported information for firearm elk season (E10, moose), 1989/90.

Report Date: 28-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : E10

Licences Sold: 350
Tags Issued: 175
Questionnaires Mailed: 175

Responses: 124
Response Rate: 70.862
Sampling Frame (2): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON															
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN													
GWA	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL
23	107	632	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	107	632	6	0	0	0	0	0	0	6	107	632	6	0	0	0	0	6
	107	632	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	107	632	6	0	0	0	0	0	0	6	107	632	6	0	0	0	0	6

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	5.91	0.00	5.91
	Kills/Hunter:	.06	0.00	.06
	Days/Kill:	105.33	0.00	105.33
Number of Hunters:		302 +- 19	0 +- 1	302 +- 19
Adult Male:		0 +- 4	0 +- 1	0 +- 4
Adult Female:		0 +- 1	0 +- 1	0 +- 1
Immature Male:		0 +- 1	0 +- 1	0 +- 1
Immature Female:		0 +- 1	0 +- 1	0 +- 1
Unknown:		0 +- 1	0 +- 1	0 +- 1
Total:		0 +- 4	0 +- 1	0 +- 4

Table 33. Estimated and reported information for firearm elk season (E11), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E11

Licences Sold: 350
Tags Issued: 175
Questionnaires Mailed: 175

Responses: 123
Response Rate: 70.29%
Sampling Frame (%): 100.00%

OVERALL SUMMARY									EARLY SEASON									LATE SEASON								
# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN							# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN							# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN						
UNA		AN	AF	IN	IF	UNK	TOTAL			AN	AF	IN	IF	UNK	TOTAL			AN	AF	IN	IF	UNK	TOTAL			
23	110	717	43	0	2	0	2	47	0	0	0	0	0	0	0	110	717	43	0	2	0	2	47			
	110	717	43	0	2	0	2	47	0	0	0	0	0	0	0	110	717	43	0	2	0	2	47			

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	6.52	0.00	6.52
	Kills/Hunter:	.43	0.00	.43
	Days/Kill:	15.26	0.00	15.26
Number of Hunters:		313 +- 17	0 +- 1	313 +- 17
Adult Male:		61 +- 9	0 +- 1	61 +- 9
Adult Female:		0 +- 1	0 +- 1	0 +- 1
Immature Male:		3 +- 3	0 +- 1	3 +- 3
Immature Female:		0 +- 1	0 +- 1	0 +- 1
Unknown:		3 +- 3	0 +- 1	3 +- 3
Totals:		67 +- 9	0 +- 1	67 +- 9

Table 34a. Estimated and reported information for firearm elk season (E12, elk), 1989/90.

Report Date: 20-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E12

Licences Sold: 150
Tags Issued: 75
Questionnaires Mailed: 75

Responses: 46
Response Rate: 61.332
Sampling Frame (2): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
GHA	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL					
23A	43	273	18	0	0	0	0	18	0	0	0	0	0	0	0	0	43	273	18	0	0	0	0	18					
	43	273	18	0	0	0	0	18	0	0	0	0	0	0	0	0	43	273	18	0	0	0	0	18					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	6.35	0.00	6.35
	Kills/Hunter:	.42	0.00	.42
	Days/Kill:	15.17	0.00	15.17
Number of Hunters:		140 +/- 11	0 +/- 2	140 +/- 11
Adult Male:		29 +/- 7	0 +/- 1	29 +/- 7
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		29 +/- 7	0 +/- 1	29 +/- 7

Table 34b. Estimated and reported information for firearm elk season (E12, moose), 1989/90.

Report Date: 28-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : E12

Licences Sold: 150
Tags Issued: 75
Questionnaires Mailed: 75

Responses: 46
Response Rate: 61.33%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN						# OF	# OF	HARVEST BREAKDOWN						# OF	# OF	HARVEST BREAKDOWN											
GHA	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL					
23A	43	273	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	273	0	0	0	0	0	0					
	43	273	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	273	0	0	0	0	0	0					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	6.35	0.00	6.35
	Kills/Hunter:	0.00	0.00	0.00
	Days/Kill:	0.00	0.00	0.00
Number of Hunters:		140 +/- 11	0 +/- 2	140 +/- 11
Adult Males:		0 +/- 1	0 +/- 1	0 +/- 1
Adult Females:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Males:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Females:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		0 +/- 1	0 +/- 1	0 +/- 1

Table 35. Estimated and reported information for firearm elk season (E13), 1989/90.

Report Date: 28-Aug-90

Species : Elk
Season Type : Firearm
Date Choice : E13

Licences Sold: 150
Tags Issued: 75
Questionnaires Mailed: 75

Responses: 53
Response Rate: 70.672
Sampling Frame (Z): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
GNA	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			
23A	49	313	24	0	0	0	0	24		0	0	0	0	0	0	0	0		49	313	24	0	0	0	0	24			
	49	313	24	0	0	0	0	24		0	0	0	0	0	0	0	0		49	313	24	0	0	0	0	24			

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	6.39	0.00	6.39
	Kills/Hunter:	.49	0.00	.49
	Days/Kill:	13.04	0.00	13.04
Number of Hunters:		139 +/- 10	0 +/- 1	139 +/- 10
Adult Male:		34 +/- 6	0 +/- 1	34 +/- 6
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		34 +/- 6	0 +/- 1	34 +/- 6

Table 36. Estimated and reported information for bowhunting moose season (AM), 1989/90.

Report Date: 28-Aug-90

Species : Moose
Season Type : Archery
Date Choice : AM

Licences Sold: 141
Tags Issued: 141
Questionnaires Mailed: 70

Responses: 52
Response Rate: 74.292
Sampling Frame (2): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN									
GHA;	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL					
12	1	3	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
13	2	8	0	0	0	0	0	0	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
13A	1	3	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
14	1	3	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
18	15	100	0	0	0	0	0	0	15	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
18A	10	46	1	0	0	0	0	1	10	46	1	0	0	0	0	0	1	0	0	0	0	0	0	0					
34	7	32	0	0	0	0	0	0	7	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
35	16	89	3	0	0	0	0	3	16	89	3	0	0	0	0	0	3	0	0	0	0	0	0	0					
35A	7	29	1	0	0	0	0	1	7	29	1	0	0	0	0	0	1	0	0	0	0	0	0	0					
UNK	2	12	0	0	0	0	0	0	2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	50	325	5	0	0	0	0	5	50	325	5	0	0	0	0	5		0	0	0	0	0	0	0					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	6.50	6.50	0.00
	Kills/Hunter:	.10	.10	0.00
	Days/Kill:	65.00	65.00	0.00
Number of Hunters:		136 +- 7	136 +- 7	0 +- 1
Adult Male:		14 +- 10	14 +- 10	0 +- 1
Adult Female:		0 +- 1	0 +- 1	0 +- 1
Immature Male:		0 +- 1	0 +- 1	0 +- 1
Immature Female:		0 +- 1	0 +- 1	0 +- 1
Unknown:		0 +- 1	0 +- 1	0 +- 1
Total:		14 +- 10	14 +- 10	0 +- 1

Table 37. Estimated and reported information for general moose season (GM), 1989/90.

Report Date: 6-Sep-90

Species : Moose
Season Type : Firearm
Date Choice : GM

Licences Sold: 4,953
Tags Issued: 4,953
Questionnaires Mailed: 2,437

Responses: 1,304
Response Rate: 53.512
Sampling Frame (2): 98.412

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
	# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN								
GNA	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			
1	7	37	2	0	0	0	0	2	4	23	2	0	0	0	0	2	3	14	0	0	0	0	0	0	0				
10	52	224	14	0	0	0	0	14	37	164	7	0	0	0	0	7	19	60	7	0	0	0	0	0	7				
11	15	61	1	0	0	0	0	1	11	39	1	0	0	0	0	1	4	22	0	0	0	0	0	0	0				
12	99	533	12	0	1	0	0	13	58	289	7	0	1	0	0	8	58	244	5	0	0	0	0	0	5				
14	125	582	31	0	0	0	2	33	69	286	14	0	0	0	0	14	75	296	17	0	0	0	0	2	19				
15	66	348	13	0	0	0	1	14	49	264	8	0	0	0	0	8	24	84	5	0	0	0	0	1	6				
15A	27	112	1	0	0	0	0	1	22	96	1	0	0	0	0	1	8	16	0	0	0	0	0	0	0				
17	77	415	19	0	0	0	0	19	76	403	19	0	0	0	0	19	3	12	0	0	0	0	0	0	0				
17A	157	897	30	0	0	0	0	30	117	621	19	0	0	0	0	19	61	276	11	0	0	0	0	0	11				
19A	55	305	9	0	0	0	1	10	55	305	9	0	0	0	1	10	0	0	0	0	0	0	0	0	0				
2	4	45	1	1	0	0	0	2	3	10	1	0	0	0	0	1	1	35	0	1	0	0	0	0	1				
21A	72	393	7	0	0	0	0	7	72	388	7	0	0	0	0	7	1	5	0	0	0	0	0	0	0				
26	178	845	17	0	0	0	1	18	0	0	0	0	0	0	0	0	178	845	17	0	0	0	0	1	18				
2A	15	80	6	0	0	0	0	6	14	74	6	0	0	0	0	6	1	6	0	0	0	0	0	0	0				
3	15	120	5	1	1	0	0	7	13	84	5	0	0	0	0	5	6	36	0	1	1	0	0	0	2				
3A	15	89	2	2	0	0	0	4	14	73	2	1	0	0	0	3	7	16	0	1	0	0	0	0	1				
4	33	179	5	0	0	0	0	5	29	149	3	0	0	0	0	3	10	30	2	0	0	0	0	0	2				
5	38	270	8	0	0	0	1	9	33	224	6	0	0	0	1	7	15	46	2	0	0	0	0	0	2				
6A	15	65	4	0	0	0	0	4	15	62	4	0	0	0	0	4	1	3	0	0	0	0	0	0	0				
7	86	543	13	0	0	0	0	13	75	446	12	0	0	0	0	12	29	97	1	0	0	0	0	0	1				
7A	45	266	9	0	1	0	1	11	40	216	7	0	0	0	1	8	13	50	2	0	1	0	0	0	3				
9	169	1190	28	2	1	1	1	33	157	945	25	0	0	1	1	26	56	245	3	2	1	1	0	7	56				
9A	35	230	2	0	0	0	0	2	34	172	2	0	0	0	0	2	8	58	0	0	0	0	0	0	0				
UNK	64	316	6	0	1	0	1	8	50	243	6	0	0	0	1	7	20	73	0	0	1	0	0	1	1				
	1248	8145	245	6	5	1	9	266	928	5576	173	1	1	0	5	180	559	2569	72	5	4	1	4	86	559				

Table 37. Estimated and reported information for general moose season (GM), 1989/90 (continued).

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
		-----	-----	-----
INDICES:	Days/Hunter:	6.93	6.01	4.60
	Kills/Hunter:	.21	.19	.15
	Days/Kill:	30.62	30.98	29.87
Number of Hunters:		4,740 +- 49	3,525 +- 106	2,123 +- 116
Adult Male:		931 +- 92	657 +- 80	273 +- 55
Adult Female:		23 +- 10	4 +- 8	19 +- 16
Immature Male:		19 +- 16	4 +- 8	15 +- 15
Immature Female:		4 +- 8	0 +- 2	4 +- 8
Unknown:		34 +- 21	19 +- 16	15 +- 15
		=====	=====	=====
Total:		1,010 +- 95	684 +- 82	327 +- 59

Table 38. Estimated and reported information for firearm moose season (M1), 1989/90.

Report Date: 28-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : M1

Licences Sold: 60
Tags Issued: 30
Questionnaires Mailed: 30

Responses: 20
Response Rate: 66.67%
Sampling Frame (%): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
#	# OF		HARVEST BREAKDOWN						#	# OF		HARVEST BREAKDOWN						#	# OF		HARVEST BREAKDOWN								
	CHAS	HUNT.	AN	AF	IN	IF	UNK	TOTAL		CHAS	HUNT.	AN	AF	IN	IF	UNK	TOTAL		CHAS	HUNT.	AN	AF	IN	IF	UNK	TOTAL			
4	19	90	14	0	0	0	0	14	19	90	14	0	0	0	0	14	0	0	0	0	0	0	0	0					
	19	90	14	0	0	0	0	14	19	90	14	0	0	0	0	14	0	0	0	0	0	0	0	0					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	4.74	4.74	0.00
	Kills/Hunter:	.74	.74	0.00
	Days/Kill:	6.43	6.43	0.00
Number of Hunters:		57 +/- 6	57 +/- 6	0 +/- 2
Adult Male:		21 +/- 4	21 +/- 4	0 +/- 1
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		21 +/- 4	21 +/- 4	0 +/- 1

Table 39. Estimated and reported information for firearm moose season (M2), 1989/90.

Report Date: 29-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : M2

Licences Sold: 100
Tags Issued: 50
Questionnaires Mailed: 50

Responses: 33
Response Rate: 70.00%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN							
GNA	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL			HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		
13	28	89	19	0	0	0	0	19		28	89	19	0	0	0	0	19		0	0	0	0	0	0	0	0	0		
13A	5	13	2	0	0	0	0	2		5	13	2	0	0	0	0	2		0	0	0	0	0	0	0	0	0		
UNK	1	1	2	0	0	0	0	2		1	1	2	0	0	0	0	2		0	0	0	0	0	0	0	0	0		
	31	103	23	0	0	0	0	23		31	103	23	0	0	0	0	23		0	0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	3.32	3.32	0.00
	Kills/Hunter:	.74	.74	0.00
	Days/Kill:	4.48	4.48	0.00
Number of Hunters:		89 +/- 10	89 +/- 10	0 +/- 1
Adult Males:		33 +/- 5	33 +/- 5	0 +/- 1
Adult Females:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Males:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Females:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Totals:		33 +/- 5	33 +/- 5	0 +/- 1

Table 40. Estimated and reported information for firearm moose season (M3), 1989/90.

Report Date: 28-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : M3

Licences Sold: 20
Tags Issued: 10
Questionnaires Mailed: 10

Responses: 0
Response Rate: 00.00%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
#GNA	# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN							# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN							# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN								
	AM	AF	IN	IF	UNK	TOTAL	AM	AF	IN		IF	UNK	TOTAL	AM	AF	IN	IF	UNK		TOTAL									
13	7	16	2	2	0	0	1	5	0	0	0	0	0	0	0	0	7	16	2	2	0	0	1	5					
13A	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0					
	7	19	2	2	0	0	1	5	0	0	0	0	0	0	0	0	7	19	2	2	0	0	1	5					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	2.71	0.00	2.71
	Kills/Hunter:	.71	0.00	.71
	Days/Kill:	3.80	0.00	3.80
Number of Hunters:		10 +/- 5	0 +/- 1	10 +/- 5
Adult Males:		3 +/- 2	0 +/- 1	3 +/- 2
Adult Females:		3 +/- 2	0 +/- 1	3 +/- 2
Immature Males:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Females:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		1 +/- 2	0 +/- 1	1 +/- 2
Total:		6 +/- 2	0 +/- 1	6 +/- 2

Table 41. Estimated and reported information for firearm moose season (M4), 1989/90.

Report Date: 20-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : M4

Licences Sold: 200
Tags Issued: 100
Questionnaires Mailed: 100

Responses: 75
Response Rate: 75.00%
Sampling Frame (2): 100.00%

OVERALL SUMMARY									EARLY SEASON									LATE SEASON								
# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN						
GHA	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AN	AF	IN	IF	UNK	TOTAL		
18	63	243	41	0	0	0	1	42	63	243	41	0	0	0	1	42	0	0	0	0	0	0	0	0		
18A	16	37	6	0	0	0	0	6	16	37	6	0	0	0	0	6	0	0	0	0	0	0	0	0		
UNK	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0		
	72	280	48	0	0	0	1	49	72	280	48	0	0	0	1	49	0	0	0	0	0	0	0	0		

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	3.89	3.89	0.00
	Kills/Hunter:	.68	.68	0.00
	Days/Kill:	5.71	5.71	0.00
Number of Hunters:		192 +/- 8	192 +/- 8	0 +/- 1
Adult Male:		64 +/- 6	64 +/- 6	0 +/- 1
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		1 +/- 2	1 +/- 2	0 +/- 1
Total:		65 +/- 6	65 +/- 6	0 +/- 1

Table 42. Estimated and reported information for firearm moose season (M5), 1989/90.

Report Date: 28-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : M5

Licences Sold: 30
Tags Issued: 15
Questionnaires Mailed: 15

Responses: 9
Response Rate: 60.00%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
		HARVEST BREAKDOWN										HARVEST BREAKDOWN										HARVEST BREAKDOWN							
GNA	# OF HUNT.	# OF DAYS	AN	AF	IN	IF	UNK	TOTAL		# OF HUNT.	# OF DAYS	AN	AF	IN	IF	UNK	TOTAL		# OF HUNT.	# OF DAYS	AN	AF	IN	IF	UNK	TOTAL			
18	8	18	2	3	0	1	1	7		0	0	0	0	0	0	0	0		8	18	2	3	0	1	1	7			
18A	1	3	0	0	0	0	0	0		0	0	0	0	0	0	0	0		1	3	0	0	0	0	0	0			
UNK	1	1	0	0	0	0	1	1		0	0	0	0	0	0	0	0		1	1	0	0	0	0	1	1			
	9	22	2	3	0	1	2	8		0	0	0	0	0	0	0	0		9	22	2	3	0	1	2	8			

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	2.44	0.00	2.44
	Kills/Hunter:	.89	0.00	.89
	Days/Kill:	2.75	0.00	2.75
Number of Hunters:		30 ± 2	0 ± 2	30 ± 2
Adult Male:		3 ± 4	0 ± 1	3 ± 4
Adult Female:		5 ± 4	0 ± 1	5 ± 4
Immature Male:		0 ± 1	0 ± 1	0 ± 1
Immature Female:		2 ± 3	0 ± 1	2 ± 3
Unknown:		3 ± 4	0 ± 1	3 ± 4
Total:		13 ± 3	0 ± 1	13 ± 3

Table 43. Estimated and reported information for firearm moose season (M6), 1989/90.

Report Date: 29-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : M6

Licences Sold: 100
Tags Issued: 50
Questionnaires Mailed: 50

Responses: 38
Response Rate: 76.00%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN									
GNA	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL					
21A	35	159	3	9	1	1	1	15	0	0	0	0	0	0	0	0	35	159	3	9	1	1	1	15					
	35	159	3	9	1	1	1	15	0	0	0	0	0	0	0	0	35	159	3	9	1	1	1	15					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	4.54	0.00	4.54
	Kills/Hunter:	.43	0.00	.43
	Days/Kill:	10.60	0.00	10.60
Number of Hunters:		92 +/- 8	0 +/- 1	92 +/- 8
Adult Male:		4 +/- 3	0 +/- 1	4 +/- 3
Adult Female:		12 +/- 4	0 +/- 1	12 +/- 4
Immature Male:		1 +/- 2	0 +/- 1	1 +/- 2
Immature Female:		1 +/- 2	0 +/- 1	1 +/- 2
Unknown:		1 +/- 2	0 +/- 1	1 +/- 2
Total:		20 +/- 5	0 +/- 1	20 +/- 5

Table 44. Estimated and reported information for firearm moose season (M7), 1989/90.

Report Date: 29-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : M7

Licences Sold: 20
Tags Issued: 10
Questionnaires Mailed: 10

Responses: 7
Response Rate: 70.002
Sampling Frame (2): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
#GWA	# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN							# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN							# OF HUNT.	# OF DAYS	HARVEST BREAKDOWN								
	AM	AF	IN	IF	UNK	TOTAL	AM	AF	IN		IF	UNK	TOTAL	AM	AF	IN	IF	UNK		TOTAL									
30	7	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	31	0	0	0	0	0	0	0	0
	7	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	31	0	0	0	0	0	0	0	0

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	4.43	0.00	4.43
	Kills/Hunter:	0.00	0.00	0.00
	Days/Kill:	0.00	0.00	0.00
Number of Hunters:		20 +/- 1	0 +/- 1	20 +/- 1
Adult Male:		0 +/- 1	0 +/- 1	0 +/- 1
Adult Female:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Male:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Female:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Totals:		0 +/- 1	0 +/- 1	0 +/- 1

Table 45. Estimated and reported information for firearm moose season (M8), 1989/90.

Report Date: 29-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : M8

Licences Sold: 72
Tags Issued: 36
Questionnaires Mailed: 36

Responses: 23
Response Rate: 63.89%
Sampling Frame (2): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN						# OF	# OF	HARVEST BREAKDOWN						# OF	# OF	HARVEST BREAKDOWN											
GHA	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL					
34	21	100	4	0	0	0	0	4	0	0	0	0	0	0	0	0	21	100	4	0	0	0	0	4					
	21	100	4	0	0	0	0	4	0	0	0	0	0	0	0	0	21	100	4	0	0	0	0	4					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICES:	Days/Hunter:	4.76	0.00	4.76
	Kills/Hunter:	.19	0.00	.19
	Days/Kill:	25.00	0.00	25.00
Number of Hunters:		66 ± 9	0 ± 2	66 ± 9
Adult Male:		6 ± 4	0 ± 1	6 ± 4
Adult Female:		0 ± 1	0 ± 1	0 ± 1
Immature Male:		0 ± 1	0 ± 1	0 ± 1
Immature Female:		0 ± 1	0 ± 1	0 ± 1
Unknown:		0 ± 1	0 ± 1	0 ± 1
Total:		6 ± 4	0 ± 1	6 ± 4

Table 46. Estimated and reported information for firearm moose season (M9), 1989/90.

Report Date: 29-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : M9

Licences Sold: 262
Tags Issued: 131
Questionnaires Mailed: 131

Responses: 95
Response Rate: 72.522
Sampling Frame (%): 100.002

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
		# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN								# OF	# OF	HARVEST BREAKDOWN					
GHA	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL		HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL			
35	50	190	3	0	0	0	0	3		0	0	0	0	0	0	0	0		50	190	3	0	0	0	0	3			
35A	49	182	8	0	0	0	0	8		0	0	0	0	0	0	0	0		49	182	8	0	0	0	0	8			
UNK	6	24	0	0	0	0	0	0		0	0	0	0	0	0	0	0		6	24	0	0	0	0	0	0			
	90	396	11	0	0	0	0	11		0	0	0	0	0	0	0	0		90	396	11	0	0	0	0	11			

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	4.40	0.00	4.40
	Kills/Hunter:	.12	0.00	.12
	Days/Kill:	36.00	0.00	36.00
Number of Hunters:		248 +/- 11	0 +/- 1	248 +/- 11
Adult Males:		15 +/- 5	0 +/- 1	15 +/- 5
Adult Females:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Males:		0 +/- 1	0 +/- 1	0 +/- 1
Immature Females:		0 +/- 1	0 +/- 1	0 +/- 1
Unknown:		0 +/- 1	0 +/- 1	0 +/- 1
Total:		15 +/- 5	0 +/- 1	15 +/- 5

Table 47. Estimated and reported information for firearm moose season (M10), 1989/90.

Report Date: 29-Aug-90

Species : Moose
Season Type : Firearm
Date Choice : M10

Licences Sold: 200
Tags Issued: 100
Questionnaires Mailed: 100

Responses: 74
Response Rate: 74.00%
Sampling Frame (%): 100.00%

OVERALL SUMMARY										EARLY SEASON										LATE SEASON									
# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN							# OF	# OF	HARVEST BREAKDOWN									
GHA	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL	HUNT.	DAYS	AM	AF	IN	IF	UNK	TOTAL					
36	68	336	11	0	0	0	0	11	0	0	0	0	0	0	0	0	68	336	11	0	0	0	0	11					
	68	336	11	0	0	0	0	11	0	0	0	0	0	0	0	0	68	336	11	0	0	0	0	11					

		OVERALL SUMMARY	EARLY SEASON	LATE SEASON
INDICIES:	Days/Hunter:	4.94	0.00	4.94
	Kills/Hunter:	.16	0.00	.16
	Days/Kill:	30.55	0.00	30.55
Number of Hunters:		184 +- 11	0 +- 1	184 +- 11
Adult Males:		15 +- 5	0 +- 1	15 +- 5
Adult Females:		0 +- 1	0 +- 1	0 +- 1
Immature Males:		0 +- 1	0 +- 1	0 +- 1
Immature Females:		0 +- 1	0 +- 1	0 +- 1
Unknown:		0 +- 1	0 +- 1	0 +- 1
Total:		15 +- 5	0 +- 1	15 +- 5

Table 48. Harvest confidence limits (95%) calculated with and without correction for continuity.

Species	Season code	Correction for continuity	No correction for continuity
Bear	RU	78	75
Caribou	GC	5	4
	C1	5	4
	C2	6	6
	C3	0	0
	C4	3	2
	C5	2	1
Deer	GD	473	469
	AD	133	129
	SD	6	5
	MD	128	125
	LD	3	2
Elk	AE1	2	2
	AE2	7	6
	AE3	3	2
	AE4	5 ^a	5 ^a
		3 ^b	3 ^b
	AE5	2 ^a	1 ^a
		1 ^b	0 ^b
	GLE	15	14
	LE1	10 ^a	9 ^a
		4 ^b	4 ^b
	LE2	2	2
	E1	2	1
	E2	2	2
	E3	4	3
	E4	3	2
	E5	4	3
	E6	2	2
	E7	3	3
	E8	2	2
	E9	2	1
	E10	7 ^a	6 ^a
		4 ^b	4 ^b
	E11	9	8
	E12	7 ^a	7 ^a
		1 ^b	0 ^b
	E13	6	5

Table 48. Harvest confidence limits (95%) calculated with and without correction for continuity (continued).

Species	Season code	Correction for continuity	No correction for continuity
Moose	AM	10	9
	GM	95	93
	M1	4	4
	M2	5	4
	M3	2	2
	M4	6	5
	M5	3	2
	M6	5	4
	M7	1	0
	M8	4	3
	M9	5	4
	M10	5	4

^aConfidence limit for elk.

^bConfidence limit for moose.

DISCUSSION

Harvest statistics, when generated by questionnaire, are invariably inaccurate. This is true because of non-response bias (hunters who respond do not represent those who do not respond) and response bias (information is incorrectly recorded for a variety of reasons). For the Manitoba general moose season, Soprovich (1989) found that non-response bias resulted in harvest overestimates of 43.0% for the late season, 23.7% for both seasons combined, and 64.4% for GHA 26. It is to be expected that estimates for other seasons, particularly the general seasons, would exhibit similar levels of inaccuracy. For seasons with high response rate and negligible response bias (response bias is largely unknown for Manitoba estimates), estimates might be expected to be reasonably accurate. Because these harvest statistics are known to be inaccurate or it is reasonable to assume that they are inaccurate, they should be treated as indices to the statistics of interest.

The fact that harvest statistics are inaccurate should not, in any way, cause managers to ignore their principal value as indicators to change in harvest. Similar arguments can be made for treating most, if not all, the management data collected in Manitoba as indices (eg., it is illogical to compute confidence limits, except to define precision, for aerial population estimates of Cervids when it is known that many of these are very inaccurate). When resources are not available to control biases, the chief value of these harvest statistics, as indices, is in their ability to be compared from year to year, when they are collected in the same manner (consistent method). Like aerial population estimates (and, again, most of the management data collected in Manitoba), these indices should never be treated as estimates (accurate) unless there is knowledge of and good evidence that biases do not exist. To use the harvest statistics as indices, it is necessary to assume that a relatively constant relationship exists between the true value of the statistic and the index. The validity of this assumption is unknown for estimates generated by hunter questionnaire; however, it seems reasonable to expect that major changes in harvest and other statistics (eg., kill/hunter effort) would be detected by these indices. Further, if data are collected in the same manner (consistent method) each year, resultant indices could be very useful, perhaps moreso than aerial surveys, as indicators of change in population abundance. Myrberger (1988) indicated that a HIPD (hunting index of population density) based on bag size will reflect changes in population size and provided evidence that an estimate based on reindeer kill data could predict aerial survey-based census estimates of the population ($r^2 = 0.94$). Indices to population size based on harvest data could prove particularly advantageous, as compared to aerial surveys, when animals are difficult to see from the air and are frequently missed (eg., in conifer-dominated habitat), because poor conditions for viewing can lead to cancellation of aerial surveys (eg., too little snow, or perhaps too much snow which can lead to changes in distribution (Peek 1971) to habitats where

visibility is poor), and due to the inherent problem of changing observers over time (a potentially major influence on visibility bias). In Manitoba, it is apparent, in retrospect, that if the kill/unit effort statistic had been examined prior to the last closure of the white-tailed deer season (1974-76), a population decline could have been detected (H. Goulden, Manitoba Wildlife Branch, pers. commun.) and perhaps conservative season measures might have been implemented prior to the closure.

As confidence limits calculated for these indices included a correction for continuity, a procedure not previously conducted, confidence limits for 1989/90 indices are not directly comparable to past ones. Although not strictly comparable to previous years, the error in doing so would be minor because the correction for continuity increased individual confidence limits by one or less in most instances (see Table 48). Additionally, it is apparent that the formula used to calculate confidence limits and intervals (Cochran 1977) sometimes provides values which are unrealistically liberal and therefore inaccurate. For example, the 95% confidence interval for E1 (Table 23) is 2-6 elk (4 ± 2) when the only possibilities are 4 or 5 elk (9 of 10 licensees had responded).

As the statistics of interest are inaccurate, and confidence limits are sometimes incorrect as calculated, confidence intervals/limits should generally be ignored except as indicators of precision for the harvest index. To allow comparison between years, and perhaps season types, a specific level of precision should be obtained; however, it would be equally valid, and more realistic and meaningful, to express precision as a standard error. Ideally, adequate sampling intensity would ensure a standard error which had stabilized. Sampling intensity should be such that a consistent standard error, rather than a consistent proportional error (eg., $\pm 20\%$ of the estimate as has often been proposed for aerial surveys), is obtained across season types. This is necessary for utilization of the data to build models (eg., relating harvest to those factors which can have an influence) or infer cause/effect

(eg., impact of a specific management strategy on harvest). A consistent standard error is important because point estimators used in such analyses should have similar precision, a condition which may not occur if the error is consistent on a proportional basis.

It should be noted that the methodology relative to time between mailings differed between this year and at least one previous year (eg., Hummelt (1986) indicates a period of 42 days between mailings). It should also be noted that summary information in each table is not consistent with 1988/89 summary information (relative to the total number of hunters, at the bottom of the summary table) but is consistent with previous years (eg., Hummelt 1986). Additionally, because harvest indices are a function of response rate, comparison of indices in this report to those from previous years should be made while recognizing the potential impact of differing response rates. For the general moose season, Soprovich and Johnson (1989) found the kill rate index to decline between response rates of 40.0% and 62.6%. Response rates for 1989/90 are relatively high for some season types (eg., for general moose, the response rate of 53.5% is considerably greater than the 42.6% obtained for the 1988/89 season; this difference is large enough to substantially influence the index and suggest extreme caution in making a comparison between the two years).

LITERATURE CITED

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APPENDIX I. Seasons where initial and second mailings were sent on dates other than specified by method.

Species	Season code	Number of questionnaires	Date specified	Date mailed	Reason for delay ^a
Bear	RU	213	27 Oct	30 Oct	C
Caribou	GC	6	9 Feb	28 Feb	A
		13	9 Feb	9 Mar	A
		2	9 Feb	22 Mar	A
		1	9 Feb	2 May	A
		4 ^b	28 Mar	3 Apr	E
		4 ^b	9 Apr	23 Apr	E
		1 ^b	19 Apr	23 Apr	E
		1 ^b	30 May	11 June	E
	C1	79	15 Dec	2 Jan	B
	C2	52	9 Feb	15 Feb	A
		3	9 Feb	19 Feb	A
		1	9 Feb	23 Feb	A
		21 ^b	9 Mar	12 Mar	E
		24 ^b	15 Mar	20 Mar	E
		1 ^b	19 Mar	20 Mar	E
		1 ^b	23 Mar	20 Mar ^c	E
	C3	10	13 Oct	16 Oct	C
	C4	10	13 Oct	16 Oct	C
	C5	25	13 Oct	16 Oct	C
Deer	GD	5125	24 Nov	2 Jan	B,D
	AD	816	24 Nov	2 Jan	B,D
	LD	31	6 Oct	18 Oct	A,C
		1	6 Oct	19 Oct	A,C
Elk	AE1	50	15 Sept	16 Oct	C
	AE2	226	15 Sept	16 Oct	C
	AE5	75	29 Sept	16 Oct	C
	GLE	119	12 Jan	19 Jan	A
		5	12 Jan	30 Jan	A

APPENDIX I. Seasons where initial and second mailings were sent on dates other than specified by method (continued).

Species	Season code	Number of questionnaires	Date specified	Date mailed	Reason for delay ^a
		1	12 Jan	2 Feb	A
		4	12 Jan	28 Feb	A
		2	12 Jan	20 Mar	A
		3 ^b	27 Feb	16 Feb ^c	E
		3 ^b	28 Mar	3 Apr	E
		2 ^b	19 Apr	23 Apr	E
	LE1	147	27 Oct	30 Oct	C
		29	27 Oct	2 Nov	A, C
		21 ^b	30 Nov	27 Nov ^c	E
	E1	10	13 Oct	16 Oct	C
	E3	50	13 Oct	16 Oct	C
	E5	20	15 Dec	29 Dec	B
	E8	25	6 Oct	16 Oct	C
	E10	175	22 Dec	29 Dec	B
	E11	71	19 Jan	24 Jan	A
	E12	75	22 Dec	29 Dec	B
Moose	GM	1926	15 Dec	2 Jan	B
	M3	10	1 Dec	8 Dec	D
	M5	15	1 Dec	11 Dec	D
	M8	36	1 Dec	2 Jan	A ^d
	M9	131	1 Dec	2 Jan	A ^d
	M10	100	8 Dec	2 Jan	A ^d

^aA: Names and addresses not received because over-the-counter sales had not been received and/or processed by Wildlife and Fisheries Licensing.

B: Mailing delayed to avoid Christmas mail.

C: Delayed due to poor program management.

D: Questionnaires received late due to poor program management.
E: Deviation, generally of several days, to maximize efficiency, because questionnaires were few in number and of relatively little impact on index, and/or time constraints.

^bSecond mailing.

^cMailing sent earlier than specified.

^dComplete mailing delayed by choice to wait for remaining names and addresses.

APPENDIX II. Mailing dates for license stubs received from
Wildlife and Fisheries Licensing.

Species	Season code	Date mailed	Number of stubs in sample ^a
Bear	RU	30 Oct	213
		1 Nov	4
		9 Nov	16
		16 Nov	22
		17 Nov	4
		20 Nov	5
		24 Nov	4
		30 Nov	15
		5 Dec	6
		12 Dec	12
		29 Dec	24
		9 Jan	23
		11 Jan	8
		17 Jan	10
		26 Jan	10
		2 Feb	5
		12 Feb	5
		27 Feb	5
		7 Mar	2
		22 Mar	1
		3 Apr	3
Deer	GD	2 Jan	5125
		3 Jan	1200
		4 Jan	1002
		5 Jan	201
		10 Jan	670
		11 Jan	237
		17 Jan	250
		26 Jan	223
		2 Feb	133
		6 Feb	31
		12 Feb	196
		27 Feb	136
		7 Mar	2
		22 Mar	38
		3 Apr	39
		2 May	34
	AD	2 Jan	817
		5 Jan	19
		9 Jan	10
		11 Jan	6
		17 Jan	9
		26 Jan	13

APPENDIX II. Mailing dates for license stubs received from
Wildlife and Fisheries Licensing (continued).

Species	Season code	Date mailed	Number of stubs in sample ^a
		2 Feb	3
		12 Feb	6
		27 Feb	7
		7 Mar	2
		22 Mar	1
		3 Apr	1
		2 May	2
	SD	24 Nov	85
		28 Nov	5
		4 Dec	3
		9 Jan	4
	MD	10 Nov	210
		16 Nov	118
		17 Nov	56
		20 Nov	61
		24 Nov	46
		28 Nov	45
		30 Nov	46
		4 Dec	9
		5 Dec	48
		7 Dec	11
		12 Dec	36
		29 Dec	67
		9 Jan	25
		11 Jan	2
		17 Jan	7
		26 Jan	32
		2 Feb	3
		12 Feb	5
		27 Feb	4
		7 Mar	2
		22 Mar	1
		2 May	5
Moose	AM	20 Oct	49
		1 Nov	5
		16 Nov	1
		24 Nov	1
		28 Nov	7
		4 Dec	4
		6 Dec	1
		9 Jan	2
		26 Jan	1

APPENDIX II. Mailing dates for license stubs received from
Wildlife and Fisheries Licensing (continued).

Species	Season code	Date mailed	Number of stubs in sample ^a
	GM	22 Dec ^b	1
		2 Jan	1926
		9 Jan	141
		11 Jan	88
		17 Jan	64
		26 Jan	108
		2 Feb	29
		6 Feb	1
		12 Feb	13
		27 Feb	34
		7 Mar	6
		22 Mar	10
		3 Apr	10
		2 May	6

^aThe number of stubs received can be estimated by dividing the number of stubs in the sample by the sampling intensity (expressed as a proportion). Several stubs in the sample were not mailed because addresses were incomplete or stubs were void.

^bThis questionnaire delivered by hand.